```
------------------------------Class 1-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][101][102]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 2-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][101][110]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 3-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][101][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 4-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][101][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
```

```
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 5-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][101][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 6-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][102][110]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 7-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][102][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class 8-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][102][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class 9-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][102][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
10-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
11-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
12-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][110][210]]
-------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
13-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
14-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
15-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][100][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
16---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][102][110]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
17---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][102][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
18---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][102][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
19---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][102][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
20----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][110][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
21----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][110][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
22----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][110][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
```

```
23---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
24---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
25---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][101][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
26---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][102][110][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
27----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
28----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
29----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
30----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][001][010][011][012][021][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
31-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
32-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
33-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
34----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
35----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][021][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
36----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][102][110]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
37----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][102][120]]
-------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
38-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][102][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
39-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][102][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
40-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
41---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
42---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
43---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
44---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
45----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][101][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
46----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][110][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
47----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][110][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
```

```
48---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][110][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
49---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
50---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
51---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][102][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
52----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
53----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
54----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][100][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
55----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][001][010][011][012][100][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
56-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
57-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
58-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
59----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
60----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
61----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][102][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
62----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][110][120][201]]
-------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
63-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
64-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
65-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][101][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
66---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
67---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
68---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
69---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
70----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][012][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
71----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][102][110]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
72----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][102][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
73---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][102][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
74---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][102][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
75---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
76---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][110][201]]
```

```
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
77-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
78-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
79-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
80----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][101][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
81----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][110][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
82----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][110][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
83---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
84---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
85---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
86---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][102][201][210]]
```

```
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
87-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
88-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
89-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
90----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][100][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
91----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
92----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
93---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
94---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
95---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
96---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][102][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
97----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
98----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
99----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
100-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][101][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
101-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
102-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][102][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
103---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
104---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
105---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][021][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
106---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][110][120]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
107-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][110][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
108-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][110][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
109-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
110-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
111-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][102][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
112-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
113---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
114---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
115---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
116---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][102][110][120][201]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
117-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
118-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
119-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
120-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][100][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
121-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][101][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
122-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][101][102][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
123---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
124---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
125---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
126---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][011][102][110][120][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
127-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][102][110]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
128-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][102][120]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
129-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][102][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
130-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][102][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
131-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
132-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
133---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
134---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
135---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
136---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][101][201][210]]
```

```
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
137-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
138-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
139-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
140-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
141-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
142-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][102][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
143---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
144---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
145---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
146---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][100][120][201][210]]
```

```
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
147-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
148-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
149-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
150-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
151-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
152-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][102][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
153---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
154---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
155---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
156---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][101][120][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
157-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
158-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
159-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
160-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
161-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][021][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
162-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
163---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
164---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
165---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
166---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][120][210]]
```

```
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
167-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][102][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
168-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
169-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
170-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
171-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][101][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
172-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
173---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
174---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
175---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
176---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][100][110][120][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
177-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][101][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
178-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][101][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
179-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
180-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][101][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
181-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][101][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
182-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][012][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
183---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
184---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
185---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
186---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
187-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
188-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
189-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
```

```
190----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
191----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
192----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
193----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
194-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
195-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
196-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][100][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
197-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][001][010][021][100][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
198-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
199-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
200-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
201-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][101][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
202-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][101][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
203-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][021][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
204-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][101][102][110][120][201]]
-------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
205-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
206-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
207-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
208---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
209---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
210---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][010][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
211---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][102][110]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
212----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][102][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
213----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][102][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
214----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][102][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
215-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
216-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
217-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
218-----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
219-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
220-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][101][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
221-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
222-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
223-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
224-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
225-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
226-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
227-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
228-----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
229-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
230-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][100][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
231-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
232-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
233-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
234-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
235----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
236----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
237----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
238----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
239-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
240-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
241-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
242-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
243-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
244-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
245-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][021][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
246-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
247-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
248-----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
249-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
250-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
251-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
252-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
253-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
254-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
255-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][101][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
256-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
257-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][102][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
258-----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
259-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
260-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][100][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
261-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
262----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
263----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
264----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
265-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][101][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
266-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][012][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
267-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
268---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
269---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
270---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
271---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][120][210]]
-------------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
272-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][102][201][210]]
------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
273-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][110][120][201]]
------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
274-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][110][120][210]]
------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
275-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
276-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
277-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
278-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][102][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
279-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][102][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
280-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
281----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][100][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
282----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][101][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
283----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][101][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
```

R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
284----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][101][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class
285----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][101][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
286----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]

```
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
287----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][021][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
288----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
289----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
290----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
291----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
292----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][101][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
293---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][100][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
294---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][011][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,2,--
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
295---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
296-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
297-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
298-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
299---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
300---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
301---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
```

```
302----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
303----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
304----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][101][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
305----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][102][110][120][201]]
```

```
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
306-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
307-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
308-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
```

```
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
309-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][100][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
310-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
311-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

```
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
312-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][101][102][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
313-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][101][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
314-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][101][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
315---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][021][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
316---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
317---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
318---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
319-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--
R4) 0,1,1,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
320-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
321-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
```

```
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
322-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][012][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
323-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,2,--
R4) 0,1,2,-->0,0,--0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
324-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,2,--
R4) 0,1,2,-->0,0,--0,1,2,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
325----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
326----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,1,1,--0,1,2,--
R4) 0,1,1,-->0,0,--
R5) 0,1,2,-->0,0,--0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,: 0,1,2,:
 Number new nodes in level n is given by : 1,2,2,   DONE

-----------------------------Class
327----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][101][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,2,--
R4) 0,1,2,-->0,0,--0,1,2,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
328----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][100][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,2,--
R4) 0,1,2,-->0,0,--0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
329----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][021][101][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,2,--
R4) 0,1,2,-->0,0,--0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
330----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][001][100][101][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->
R3) 0,1,-->0,0,--0,0,--0,1,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
331----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][102][110]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
332----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][102][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
333----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][102][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
334---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][102][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
335---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
336---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
337---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][110][210]]
-------------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
338-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
339-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
340-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][101][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
341----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
342----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
343----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
344---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
345---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
346---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
347---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][110][120][201]]
-------------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
348-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
349-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
350-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][100][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
351----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
352----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
353----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
354---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
355---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
356---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
357---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][110][120][201]]
-------------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
358-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
359-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
360-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
361-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
362-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
363-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE
```

```
----------------------------Class
364---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
365---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][021][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
366---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
367---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][010][011][012][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
368----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
369----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
370----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
371-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
372-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
```

```
373---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
374---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
375---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][101][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
376---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
377---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
378---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
379---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
380---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][100][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
381---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
```

```
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
382-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
383-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
384-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
```

LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
385---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
386---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][012][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,2,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
387---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][110][120]]

--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

```
----------------------------Class
388---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
389---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
390---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
391---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
392-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][102][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
393-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
394-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
```

```
395----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
396----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][101][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
397----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
398----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
399----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
400----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
401----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][100][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
402----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][010][011][021][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
403-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
404-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
405-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
```

LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class 406----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][101][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class 407----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][021][102][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class 408----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][101][102][110][120][201]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,1,--
R5) 0,0,2,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

```
----------------------------Class
409---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,1,--
R5) 0,0,2,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

----------------------------Class
410---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,0,2,--
R5) 0,0,2,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

----------------------------Class
411---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,1,--
R5) 0,0,2,1,-->
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

----------------------------Class
412-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,--
R3) 0,1,-->0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
413-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,1,--
R5) 0,0,2,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

----------------------------Class
414-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][011][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
```

```
R3) 0,1,-->0,1,--
R4) 0,0,2,-->0,0,2,1,--0,1,--
R5) 0,0,2,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,:
LEN=4) 0,0,2,1,:
 Number new nodes in level n is given by : 1,2,1,1,   DONE

-----------------------------Class
415-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
416-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
417-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][110][210]]
-------------------------------------------------------------------------------
--
```

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
418-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
419-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
420-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][102][201][210]]
--------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
421-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
422-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
423-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][110][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
424----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][101][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
425----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
426----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][010][012][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
427-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
428-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
429-----------------------------------------------
```

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][100][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
430-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
431-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
```

```
432----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
433----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
434----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][101][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
435---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][021][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,1,--
R3) 0,1,-->0,1,1,--
R4) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
436---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
437---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
```

```
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
438-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
439-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
440-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,1,--
```

R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------Class
441----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][100][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,1,--0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------Class
442----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][012][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,1,--0,0,2,--
R3) 0,1,-->0,1,1,--
R4) 0,0,2,-->0,1,--0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------Class
443----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][100][101][102][110][120][201]]
--
Rules of T[L]:

```
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,--
R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--
0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,
2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

----------------------------Class
444---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,--
```

R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

------------------------------Class
445--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][100][101][102][110][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:

LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

----------Class 446----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[000][010][021][100][101][102][120][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9) 0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R10) 0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R11) 0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

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447----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][100][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,--
R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--
0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,
2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

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448----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][100][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--

R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,--
R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--
0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,
2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

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449----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][021][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,--
R4) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,--
R5) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,--
R6) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R7) 0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R8) 0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
R9)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,--
R10)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--
0,0,1,1,2,--0,0,1,--0,--
R11)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,

2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

----------Class
450----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][010][100][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,1,--0,0,2,--
R3) 0,0,1,-->0,0,1,1,--0,0,1,--0,0,2,--
R4) 0,0,2,-->0,0,2,1,--0,0,--0,--
R5) 0,0,1,1,-->0,0,1,1,2,--0,0,1,1,3,--0,0,1,1,4,--
R6) 0,0,2,1,-->
R7) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,1,3,--0,0,1,1,4,--
R8) 0,0,1,1,3,-->0,0,2,1,--0,0,1,1,--0,0,1,--0,0,2,--
R9) 0,0,1,1,4,-->0,0,2,1,--0,0,2,1,--0,0,--0,--
R10)
0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,2,4,--0,0,1,1,2,2,5,--0,0,1,1,2,2,6,--
R11)
0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,2,4,--0,0,1,1,2,2,5,--
0,0,1,1,2,2,6,--
R12) 0,0,1,1,2,2,4,-->0,0,2,1,--0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,1,3,--0,0,1,1,4,--
R13) 0,0,1,1,2,2,5,-->0,0,2,1,--0,0,2,1,--0,0,1,1,--0,0,1,--0,0,2,--
R14) 0,0,1,1,2,2,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,--0,--
R15)
0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,3,5,--0,0,1,1,2,2,3,3,6,--0,0,
1,1,2,2,3,3,7,--0,0,1,1,2,2,3,3,8,--
R16)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,3,5,--
0,0,1,1,2,2,3,3,6,--0,0,1,1,2,2,3,3,7,--0,0,1,1,2,2,3,3,8,--
R17)
0,0,1,1,2,2,3,3,5,-->0,0,2,1,--0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,2,4,--0,
0,1,1,2,2,5,--0,0,1,1,2,2,6,--
R18)

0,0,1,1,2,2,3,3,6,-->0,0,2,1,--0,0,2,1,--0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,1,3,--0,0,
1,1,4,--
R19) 0,0,1,1,2,2,3,3,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,1,--0,0,1,--0,0,2,--
R20) 0,0,1,1,2,2,3,3,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,--0,--
R21)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,4,6,--0,0,1,1,2,2,
3,3,4,4,7,--0,0,1,1,2,2,3,3,4,4,8,--0,0,1,1,2,2,3,3,4,4,9,--0,0,1,1,2,2,3,3,4,4,10,
--
R22)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,
2,2,3,3,4,4,6,--0,0,1,1,2,2,3,3,4,4,7,--0,0,1,1,2,2,3,3,4,4,8,--0,0,1,1,2,2,3,3,4,4
,9,--0,0,1,1,2,2,3,3,4,4,10,--
R23)
0,0,1,1,2,2,3,3,4,4,6,-->0,0,2,1,--0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,
1,2,2,3,3,5,--0,0,1,1,2,2,3,3,6,--0,0,1,1,2,2,3,3,7,--0,0,1,1,2,2,3,3,8,--
R24)
0,0,1,1,2,2,3,3,4,4,7,-->0,0,2,1,--0,0,2,1,--0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,
1,1,2,2,4,--0,0,1,1,2,2,5,--0,0,1,1,2,2,6,--
R25)
0,0,1,1,2,2,3,3,4,4,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,1,2,2,--0,0,1,1,2,--0,
0,1,1,3,--0,0,1,1,4,--
R26)
0,0,1,1,2,2,3,3,4,4,9,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,1,--0,0,1,--
0,0,2,--
R27)
0,0,1,1,2,2,3,3,4,4,10,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,--0
,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,1,: 0,0,2,:
LEN=4) 0,0,1,1,: 0,0,2,1,:
LEN=5) 0,0,1,1,2,: 0,0,1,1,3,: 0,0,1,1,4,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,: 0,0,1,1,2,2,4,: 0,0,1,1,2,2,5,: 0,0,1,1,2,2,6,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,: 0,0,1,1,2,2,3,3,5,: 0,0,1,1,2,2,3,3,6,:
0,0,1,1,2,2,3,3,7,: 0,0,1,1,2,2,3,3,8,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,: 0,0,1,1,2,2,3,3,4,4,6,: 0,0,1,1,2,2,3,3,4,4,7,:
0,0,1,1,2,2,3,3,4,4,8,: 0,0,1,1,2,2,3,3,4,4,9,: 0,0,1,1,2,2,3,3,4,4,10,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,1,2,2,3,1,4,1,5,1,6,1,

------------------------------Class
451--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][110][120]]

--

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
452-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][110][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
453-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][110][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
454-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][120][201]]
--------------------------------------------------------------------------------
```

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
455---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
456---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
457---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][110][120][201]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
458---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
459---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][101][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
460---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][011][012][021][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
461-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
462-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
463-----------------------------------------------
```

Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
464----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
465----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][100][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class

```
466----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
467----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
468----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
469---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
470---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
471---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][021][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE
```

```
----------------------------Class
472---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][101][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
473---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][101][102][110][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
474---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][101][102][110][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
```

```
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
475-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
476-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
477-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][100][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
```

LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
478---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][012][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,0,1,--
R4) 0,0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
479---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,2,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
480---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][101][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,2,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
481---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,1,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
482---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,2,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
483---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][101][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
```

```
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,0,2,-->0,0,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,2,:
 Number new nodes in level n is given by : 1,1,1,   DONE

-----------------------------Class
484-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][100][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,2,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

-----------------------------Class
485-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][021][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,2,--
R4) 0,0,2,-->0,0,2,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,2,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

-----------------------------Class
486-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][011][100][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
```

```
Rules of T[L]:
R1) 0,-->0,--0,1,--
R2) 0,1,-->0,1,0,--0,1,2,--
R3) 0,1,0,-->
R4) 0,1,2,-->0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,1,:
LEN=3) 0,1,0,: 0,1,2,:
 Number new nodes in level n is given by : 1,1,2,   DONE

------------------------------Class
487-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][100][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
488-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
489-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[000][012][021][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

-----------------------------Class
490-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,0,1,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

-----------------------------Class
491-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE
```

```
----------------------------Class
492---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][100][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,0,1,--0,1,1,--
R4) 0,0,1,-->0,1,1,--
R5) 0,1,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,1,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
493---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][021][101][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------------------------Class
494---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][012][100][101][102][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,1,--
R3) 0,1,-->0,1,0,--0,1,0,--
R4) 0,0,1,-->0,1,0,--
R5) 0,1,0,-->
List of different nodes in T[L]
```

LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,1,0,:
 Number new nodes in level n is given by : 1,2,2,   DONE

----------Class
495----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[000][021][100][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,1,--0,0,2,--
R3) 0,1,-->0,1,0,--0,0,--0,0,2,--
R4) 0,0,1,-->0,0,1,1,--0,0,1,--0,0,2,--
R5) 0,0,2,-->0,0,--0,0,2,--
R6) 0,1,0,-->
R7) 0,0,1,1,-->0,0,1,1,2,--0,0,1,--0,0,2,--
R8) 0,0,1,1,2,-->0,0,1,1,2,2,--0,0,1,1,2,--0,0,1,--0,0,2,--
R9) 0,0,1,1,2,2,-->0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,0,2,--
R10)
0,0,1,1,2,2,3,-->0,0,1,1,2,2,3,3,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,0,2,--
R11)
0,0,1,1,2,2,3,3,-->0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,0,2,--
R12)
0,0,1,1,2,2,3,3,4,-->0,0,1,1,2,2,3,3,4,4,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,
1,1,2,--0,0,1,--0,0,2,--
R13)
0,0,1,1,2,2,3,3,4,4,-->0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,2,2,3,3,4,--0,0,1,1,2,2,3,--
0,0,1,1,2,--0,0,1,--0,0,2,--
R14)
0,0,1,1,2,2,3,3,4,4,5,-->0,0,1,1,2,2,3,3,4,4,5,5,--0,0,1,1,2,2,3,3,4,4,5,--0,0,1,1,
2,2,3,3,4,--0,0,1,1,2,2,3,--0,0,1,1,2,--0,0,1,--0,0,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,1,: 0,0,2,: 0,1,0,:
LEN=4) 0,0,1,1,:
LEN=5) 0,0,1,1,2,:
LEN=6) 0,0,1,1,2,2,:
LEN=7) 0,0,1,1,2,2,3,:
LEN=8) 0,0,1,1,2,2,3,3,:
LEN=9) 0,0,1,1,2,2,3,3,4,:
LEN=10) 0,0,1,1,2,2,3,3,4,4,:
LEN=11) 0,0,1,1,2,2,3,3,4,4,5,:
LEN=12) 0,0,1,1,2,2,3,3,4,4,5,5,:
 Number new nodes in level n is given by : 1,2,3,1,1,1,1,1,1,1,1,1,

----------Class

```
496---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][102][110]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
497---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][102][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
498---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][102][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
499---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][102][210]]
-------------------------------------------------------------------------------
--
```

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
500-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
501-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
502-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
503----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
504----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
505----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][101][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
```

```
506-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][110][120]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
507-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][110][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
508-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][110][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
509-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][120][201]]
-------------------------------------------------------------------------------
--
```

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
510-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
511-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

------------------------------Class
512-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
513----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
514----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
515----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][100][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
```

516----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][110][120]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
517----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][110][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
518----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][110][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
519----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][120][201]]

--

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
520-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
521-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
522-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
523----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
524----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
525----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][101][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
```

526----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
527----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
528----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
529----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][102][120][201][210]]

--

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
530-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][021][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
531-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
532-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
```

LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
533----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][110][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
534----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
535----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class

536--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][102][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
537--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
538--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
539--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][110][201][210]]

--

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
540-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][101][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
541-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
542-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
543---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
544---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
545---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][100][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
```

546----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
547----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][101][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
548----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][101][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------Class
549----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][101][102][120][201][210]]

--

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
550-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
551-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][012][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
552-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][110][120]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class
553----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][110][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class
554----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][110][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class
555----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------Class
556----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][120][210]]

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
557-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][102][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
558-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
559-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
560---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
561---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
562---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
563---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
564-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
565-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
566-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][100][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
```

```
567---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][101][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
568---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][101][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
569---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
570---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
```

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
571-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
572-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][021][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
573-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
574-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[001][010][011][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
575-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
576-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
577-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
578---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][100][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
579---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][011][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
580---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][110][120]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
581---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][110][201]]

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
582-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
583-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
584-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
585---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][102][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
586---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
587---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
588---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
589-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][101][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
590-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
591-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
```

592--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
593--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
594--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][100][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
595--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
596----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][101][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
597----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][101][102][110][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
598----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][101][102][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
599----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
```

```
L=[[001][010][012][021][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
600-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][021][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
601-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
602-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
```

LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
603---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][101][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
604---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][101][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
605---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

------------------------------Class
606---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][100][102][110][120][201][210]]

```
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
607-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][012][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
608-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
609-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE
```

```
----------------------------Class
610---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
611---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
612---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
613---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
```

```
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
614-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][021][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
615-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][010][100][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
616-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
```

```
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
617-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][110][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
618-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][110][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
619-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
```

```
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
620-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][120][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
621-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][102][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
622-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
```

LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
623----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
624----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
625----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][101][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]

LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
626----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
627----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------Class
628----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->

```
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
629----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][102][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
630----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][100][110][120][201][210]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
631----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][101][102][110][120][201]]
-------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
```

```
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
632---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
633---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
634---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

----------------------------Class
635---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][101][110][120][201][210]]
```

```
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
636-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][021][102][110][120][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
637-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][101][102][110][120][201]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
638-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][101][102][110][120][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
```

```
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
639----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
640----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
641----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
```

```
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
642-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][100][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
643-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][012][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,0,--
R2) 0,0,-->0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
 Number new nodes in level n is given by : 1,1,   DONE

-----------------------------Class
644-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][101][102][110][120][201]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
```

```
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
645-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][101][102][110][120][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
646-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,1,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
647-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
```

```
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
648---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][101][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
649---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
650---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][021][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
```

```
R2) 0,0,-->0,0,--
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

----------------------------Class
651-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][011][100][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
652-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][101][102][110][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

----------------------------Class
653-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
```

```
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
654----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][101][102][110][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
655----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][101][102][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,1,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
656----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][101][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
```

```
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
657-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][100][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

-----------------------------Class
658-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][021][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,0,--0,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
 Number new nodes in level n is given by : 1,2,   DONE

-----------------------------Class
659-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][012][100][101][102][110][120][201][210]]
-------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
```

```
R3) 0,1,-->0,1,0,--0,0,--
R4) 0,1,0,-->
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,:
 Number new nodes in level n is given by : 1,2,1,   DONE

------------------------------Class
660-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[001][021][100][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,--
R3) 0,1,-->0,1,0,--0,0,--0,1,2,--
R4) 0,1,0,-->
R5) 0,1,2,-->0,0,--0,1,2,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,1,0,: 0,1,2,:
 Number new nodes in level n is given by : 1,2,2,   DONE

------------------------------Class
661-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][102][110][120]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
```

R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
662----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][102][110][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:

LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 663----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][011][012][021][100][101][102][110][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:

```
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------------------------Class
664---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][102][120][201]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------------------------Class
665---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][102][120][210]]
--------------------------------------------------------------------------------
--
```

```
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------------------------Class
666----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][102][201][210]]
------------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
```

R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
667----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)

0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

------------------------------Class
668--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:

LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 669----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][011][012][021][100][101][110][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:

LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
670----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][101][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
671----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][102][110][120][201]]

```
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

-----------------------------Class
672-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
```

R6) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

------------------------------Class
673--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][102][110][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,

--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
674----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][102][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]

LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 675----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][100][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:

LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
676----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
677----------

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][101][102][110][120][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

-----------------------------Class
678-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
```

R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------------------------Class
679--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][101][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--

R10)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

------------------------------Class
680---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][021][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,

1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 681----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][011][012][021][102][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:

LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
682----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][100][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,0,2,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,0,2,--0,0,0,3,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R15)
0,0,0,0,0,0,0,7,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,
--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R17)
0,0,0,0,0,0,0,0,8,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,
6,--0,0,0,0,0,0,0,7,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R19)

0,0,0,0,0,0,0,0,0,9,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,
0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0
,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,9,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

------------------------------Class
683---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][100][101][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,

```
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R17) 0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R19) 0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

-----------------------------Class
684---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--
R10)
```

0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--
R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R17) 0,0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,0,10,--
R19) 0,0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

------------------------------Class
685--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][100][101][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--

R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R17) 0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R19) 0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class 686----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][011][012][100][101][110][120][201][210]]

Rules of T[L]:

R1) 0,-->0,0,--0,1,--

R2) 0,0,-->0,0,0,--0,1,--0,0,2,--

R3) 0,1,-->

R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--

R5) 0,0,2,-->0,1,--

R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--

R7) 0,0,0,3,-->0,1,--0,1,--

R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--

R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--

R10) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--

R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--

R12) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--

R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--

R14) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--

R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--

R16) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--

R17) 0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--

R18) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--

R19) 0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--

R20) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--

R21) 0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--

List of different nodes in T[L]

LEN=1) 0,:

LEN=2) 0,0,: 0,1,:

LEN=3) 0,0,0,: 0,0,2,:

LEN=4) 0,0,0,0,: 0,0,0,3,:

LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
687----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][100][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R17) 0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R19) 0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,

4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

------------------------------Class
688--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][012][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R9) 0,0,0,0,4,-->0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,6,--
R11) 0,0,0,0,0,5,-->0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R13) 0,0,0,0,0,0,6,-->0,1,--0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R15) 0,0,0,0,0,0,0,7,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9

,--
R17) 0,0,0,0,0,0,0,0,0,8,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R19) 0,0,0,0,0,0,0,0,0,9,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R21)
0,0,0,0,0,0,0,0,0,0,10,-->0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

------------------------------Class
689---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][100][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--
0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--

0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15)
0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,
0,1,--0,0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,
--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,1
,--
R17)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,
0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--
0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
690----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][100][101][102][110][120][210]]

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--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--
0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--
0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15)
0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,
0,1,--0,0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,
--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1
,--
R17)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,
0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--
0,0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
```

LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class 691----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][100][101][102][110][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13) 0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R14) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15) 0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R16) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R17)

0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,
0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--
0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
692----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][100][101][102][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--

0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--
0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15)
0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,
0,1,--0,0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,
--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,1
,--
R17)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,
0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--
0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class 693----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][011][021][100][101][110][120][201][210]]

Rules of T[L]:

R1) 0,-->0,0,--0,1,--

R2) 0,0,-->0,0,0,--0,0,1,--0,1,--

R3) 0,1,-->0,1,--

R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--

R5) 0,0,1,-->0,0,1,--0,1,--

R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--

R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R10) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R12) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R13) 0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R14) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R15) 0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R16) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R17) 0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R18) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R19) 0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R20) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--

R21)

0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
694----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][100][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--
0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--
0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15)
0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,
0,1,--0,0,1,--0,1,--
R16)

0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,
--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1
,--
R17)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,
0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--
0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,0,1
,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
695----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][021][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,0,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R7) 0,0,0,1,-->0,0,0,1,--0,0,1,--0,1,--

R8) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R10)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R11) 0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R13)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R15)
0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,1,--
R16)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,1,--0,1,--
R17)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R19)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R20)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,:
LEN=4) 0,0,0,0,: 0,0,0,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,:

LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
 Number new nodes in level n is given by : 1,2,2,2,2,2,2,2,2,2,2,2,

----------Class
696----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][011][100][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,0,2,--0,0,0,3,--
R5) 0,0,1,-->0,0,1,--0,0,2,--
R6) 0,0,2,-->0,0,2,1,--0,1,--
R7) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,0,2,--0,0,0,0,3,--0,0,0,0,4,--
R8) 0,0,0,1,-->0,0,0,1,--0,0,0,2,--0,0,0,3,--
R9) 0,0,0,2,-->0,0,2,1,--0,0,1,--0,0,2,--
R10) 0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,1,--
R11) 0,0,2,1,-->
R12)
0,0,0,0,0,-->0,0,0,0,0,0,--0,0,0,0,0,1,--0,0,0,0,0,2,--0,0,0,0,0,3,--0,0,0,0,0,4,--
0,0,0,0,0,5,--
R13) 0,0,0,0,1,-->0,0,0,0,1,--0,0,0,0,2,--0,0,0,0,3,--0,0,0,0,4,--
R14) 0,0,0,0,2,-->0,0,2,1,--0,0,0,1,--0,0,0,2,--0,0,0,3,--
R15) 0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,1,--0,0,2,--
R16) 0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R17)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,0,2,--0,0,0,0,0,0,3,--0,0,
0,0,0,0,4,--0,0,0,0,0,0,5,--0,0,0,0,0,0,6,--
R18)
0,0,0,0,0,1,-->0,0,0,0,0,1,--0,0,0,0,0,2,--0,0,0,0,0,3,--0,0,0,0,0,4,--0,0,0,0,0,5,
--
R19) 0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,1,--0,0,0,0,2,--0,0,0,0,3,--0,0,0,0,4,--
R20) 0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,1,--0,0,0,2,--0,0,0,3,--
R21) 0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,--0,0,2,--
R22) 0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R23)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,2,--0,0,0,0,0,0,
0,3,--0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R24)
0,0,0,0,0,0,1,-->0,0,0,0,0,0,1,--0,0,0,0,0,0,2,--0,0,0,0,0,0,3,--0,0,0,0,0,0,4,--0,
0,0,0,0,0,5,--0,0,0,0,0,0,6,--
R25)
0,0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,0,1,--0,0,0,0,0,2,--0,0,0,0,0,3,--0,0,0,0,0,4,--
0,0,0,0,0,5,--
R26)
0,0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,0,1,--0,0,0,0,2,--0,0,0,0,3,--0,0,0,0,4,

--
R27) 0,0,0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,1,--0,0,0,2,--0,0,0,3,--
R28) 0,0,0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,--0,0,2,--
R29) 0,0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R30)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,2,--0,0,
0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,6,--0,0,0,0
,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--
R31)
0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,0,3,--0,0,0,0,0,
0,0,4,--0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--
R32)
0,0,0,0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,3,--0,0,0,
0,0,0,4,--0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,6,--
R33)
0,0,0,0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,1,--0,0,0,0,0,0,2,--0,0,0,0,0,0,3,--0,
0,0,0,0,0,4,--0,0,0,0,0,0,5,--
R34)
0,0,0,0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,1,--0,0,0,0,0,2,--0,0,0,0,0,3,
--0,0,0,0,0,4,--
R35)
0,0,0,0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,1,--0,0,0,2,--0,0,0,
0,3,--
R36)
0,0,0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,1,--0,0,2,
--
R37)
0,0,0,0,0,0,0,0,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,
--
R38)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,
2,--0,0,0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0
,0,0,6,--0,0,0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,0,9,--
R39)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,0,0,3,--0,
0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,0,7,--0,0,0
,0,0,0,0,0,8,--
R40)
0,0,0,0,0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,0,3,
--0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,7,--
R41)
0,0,0,0,0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,2,--0,0,0,0,0,0,
0,3,--0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--
R42)
0,0,0,0,0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,1,--0,0,0,0,0,0,2,--0,0,0,
0,0,0,3,--0,0,0,0,0,0,4,--0,0,0,0,0,0,5,--
R43)
0,0,0,0,0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,1,--0,0,0,0,0,2,
--0,0,0,0,0,3,--0,0,0,0,0,4,--
R44)

0,0,0,0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,1,--0,
0,0,2,--0,0,0,3,--
R45)
0,0,0,0,0,0,0,0,0,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,
0,1,--0,0,2,--
R46)
0,0,0,0,0,0,0,0,0,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,
0,2,1,--0,1,--
R47)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,0,2,--0,0,0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,0,5,-
-0,0,0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,
0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R48)
0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,0,
0,3,--0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0
,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--
R49)
0,0,0,0,0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,2,--0,0,0,0,0,
0,0,0,3,--0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0
,0,7,--0,0,0,0,0,0,0,0,8,--
R50)
0,0,0,0,0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,2,--0,0,
0,0,0,0,0,3,--0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7
,--
R51)
0,0,0,0,0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,1,--0,0,0,0,0,0,2,
--0,0,0,0,0,0,3,--0,0,0,0,0,0,4,--0,0,0,0,0,0,5,--0,0,0,0,0,0,6,--
R52)
0,0,0,0,0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,1,--0,0,0,
0,0,2,--0,0,0,0,0,3,--0,0,0,0,0,4,--0,0,0,0,0,5,--
R53)
0,0,0,0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,1,
--0,0,0,0,2,--0,0,0,0,3,--0,0,0,0,4,--
R54)
0,0,0,0,0,0,0,0,0,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--
0,0,0,1,--0,0,0,2,--0,0,0,3,--
R55)
0,0,0,0,0,0,0,0,0,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--
0,0,2,1,--0,0,1,--0,0,2,--
R56)
0,0,0,0,0,0,0,0,0,9,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--
0,0,2,1,--0,0,2,1,--0,1,--
R57)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,0,2,--0,0,0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0
,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,0,6,--0,0,0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,
0,0,0,8,--0,0,0,0,0,0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,
0,11,--
R58)

0,0,0,0,0,0,0,0,0,0,0,1,-->0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,0,2,--0,0,0,0,0,
0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,0,0,6
,--0,0,0,0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,0,0,9,--0,0,0,0,
0,0,0,0,0,0,0,10,--
R59)
0,0,0,0,0,0,0,0,0,0,0,2,-->0,0,2,1,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,0,2,--0,0,
0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,0,6,-
-0,0,0,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,0,9,--
R60)
0,0,0,0,0,0,0,0,0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,2,
--0,0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,0,6,--0
,0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,0,8,--
R61)
0,0,0,0,0,0,0,0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,2,--0,0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,0,6,--0,0
,0,0,0,0,0,7,--
R62)
0,0,0,0,0,0,0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,0,0,1,--0,0,
0,0,0,0,0,0,2,--0,0,0,0,0,0,0,3,--0,0,0,0,0,0,0,4,--0,0,0,0,0,0,0,5,--0,0,0,0,0,0,0,6,--
R63)
0,0,0,0,0,0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,0,0,
0,1,--0,0,0,0,0,0,2,--0,0,0,0,0,0,3,--0,0,0,0,0,0,4,--0,0,0,0,0,0,5,--
R64)
0,0,0,0,0,0,0,0,0,0,0,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,
--0,0,0,0,0,1,--0,0,0,0,0,2,--0,0,0,0,0,3,--0,0,0,0,0,0,4,--
R65)
0,0,0,0,0,0,0,0,0,0,0,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,
--0,0,2,1,--0,0,0,0,1,--0,0,0,0,2,--0,0,0,0,0,3,--
R66)
0,0,0,0,0,0,0,0,0,0,0,9,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,
--0,0,2,1,--0,0,2,1,--0,0,1,--0,0,2,--
R67)
0,0,0,0,0,0,0,0,0,0,0,10,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1
,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,1,: 0,0,0,2,: 0,0,0,3,: 0,0,2,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,: 0,0,0,0,2,: 0,0,0,0,3,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,: 0,0,0,0,0,2,: 0,0,0,0,0,3,: 0,0,0,0,0,4,:
0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,: 0,0,0,0,0,0,2,: 0,0,0,0,0,0,3,:
0,0,0,0,0,0,4,: 0,0,0,0,0,0,5,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,2,: 0,0,0,0,0,0,0,3,:
0,0,0,0,0,0,0,4,: 0,0,0,0,0,0,0,5,: 0,0,0,0,0,0,0,6,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,0,2,:
0,0,0,0,0,0,0,0,3,: 0,0,0,0,0,0,0,0,4,: 0,0,0,0,0,0,0,0,5,: 0,0,0,0,0,0,0,0,6,:
0,0,0,0,0,0,0,0,7,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,0,0,2,:

0,0,0,0,0,0,0,0,0,0,3,: 0,0,0,0,0,0,0,0,0,0,4,: 0,0,0,0,0,0,0,0,0,0,5,:
0,0,0,0,0,0,0,0,0,0,6,: 0,0,0,0,0,0,0,0,0,0,7,: 0,0,0,0,0,0,0,0,0,0,8,:
0,0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,0,0,0,2,:
0,0,0,0,0,0,0,0,0,0,3,: 0,0,0,0,0,0,0,0,0,0,4,: 0,0,0,0,0,0,0,0,0,0,5,:
0,0,0,0,0,0,0,0,0,0,6,: 0,0,0,0,0,0,0,0,0,0,7,: 0,0,0,0,0,0,0,0,0,0,8,:
0,0,0,0,0,0,0,0,0,0,9,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
0,0,0,0,0,0,0,0,0,0,0,2,: 0,0,0,0,0,0,0,0,0,0,0,3,: 0,0,0,0,0,0,0,0,0,0,0,4,:
0,0,0,0,0,0,0,0,0,0,0,5,: 0,0,0,0,0,0,0,0,0,0,0,6,: 0,0,0,0,0,0,0,0,0,0,0,7,:
0,0,0,0,0,0,0,0,0,0,0,8,: 0,0,0,0,0,0,0,0,0,0,0,9,: 0,0,0,0,0,0,0,0,0,0,0,10,:
0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,3,5,5,6,7,8,9,10,11,12,

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697----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][101][102][110][120][201]]

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Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:

LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
698----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][101][102][110][120][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
699----------

```
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][101][102][110][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

-----------------------------Class
700-----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
```

R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class
701----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][101][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--

R10)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

------------------------------Class
702---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][021][100][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,

1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 703----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][012][021][101][102][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:

LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

----------Class 704----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[010][012][100][101][102][110][120][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,0,2,1,--0,1,--
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R7) 0,0,0,3,-->0,0,2,1,--0,0,2,1,--0,1,--
R8) 0,0,2,1,-->
R9) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R10) 0,0,0,0,4,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R11) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--
R12) 0,0,0,0,0,5,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R13) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R14) 0,0,0,0,0,0,6,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R15) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
R16) 0,0,0,0,0,0,0,7,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R17) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--
R18) 0,0,0,0,0,0,0,0,8,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R19) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--

R20)
0,0,0,0,0,0,0,0,0,0,9,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
R21)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R22)
0,0,0,0,0,0,0,0,0,0,0,10,-->0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,0,2,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,:
LEN=4) 0,0,0,0,: 0,0,0,3,: 0,0,2,1,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,2,3,2,2,2,2,2,2,2,2,

----------Class 705----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[010][021][100][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,--
R2) 0,0,-->0,0,0,--0,0,--0,--
R3) 0,0,0,-->0,0,0,0,--0,0,0,--0,0,--0,--
R4) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
R5) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
R6)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
R7)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
R8)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,--0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--
R9)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,--0,0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
R10)

0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,
0,0,--0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,--0,0,0,0,0,0,--0,0,0,0,0,--0,0,0,--0,0,0,--
0,0,--0,--
R11)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,
0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,--0,0,0,0,0,0,--0
,0,0,0,0,--0,0,0,0,--0,0,0,--0,0,--0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,1,1,1,1,1,1,1,1,1,1,1,

----------Class
706----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][021][100][101][102][110][120][201]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R11)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R13)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--

List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

----------Class 707----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[011][012][021][100][101][102][110][120][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R13) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:

LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

----------Class 708----------
Inversion Sequences (I_n=(n+1)!) avoiding L=[[011][012][021][100][101][102][110][201][210]]

Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11) 0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R12) 0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R13) 0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

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----------------------------Class
709---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][021][100][101][102][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R11)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R13)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

----------------------------Class
710---------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][021][100][101][110][120][201][210]]
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Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R11)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R13)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

----------------------------Class
711----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][021][100][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
```

R7) 0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R11)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,
--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R13)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,2,1,1,1,1,1,1,1,1,1,

------------------------------Class
712---
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][021][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R6) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R7) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R10)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,

```
--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R12)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,1,1,1,1,1,1,1,1,1,1,

-----------------------------Class
713----------------------------------------------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][012][100][101][102][110][120][201][210]]
--------------------------------------------------------------------------------
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,0,2,--
R3) 0,1,-->0,1,0,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--
R5) 0,0,2,-->0,1,0,--0,1,0,--
R6) 0,1,0,-->
R7) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
R8) 0,0,0,3,-->0,1,0,--0,1,0,--0,1,0,--
R9) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--
R10) 0,0,0,0,4,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--
R11)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,--0,
0,0,0,0,0,0,6,--
R12) 0,0,0,0,0,5,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--
R13)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,0,5,
--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--
R14) 0,0,0,0,0,0,6,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--
R15)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,0,0,
0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--
```

R16) 0,0,0,0,0,0,0,7,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--
R17)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--0,0,
0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0,0,9
,--
R18)
0,0,0,0,0,0,0,0,8,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,
--
R19)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,4,--
0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0,0,0
,0,9,--0,0,0,0,0,0,0,0,0,0,10,--
R20)
0,0,0,0,0,0,0,0,0,9,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,
0,--0,1,0,--
R21)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,0,2,--0,0,0,3,--0,0,0,0,
4,--0,0,0,0,0,5,--0,0,0,0,0,0,6,--0,0,0,0,0,0,0,7,--0,0,0,0,0,0,0,0,8,--0,0,0,0,0,0
,0,0,0,9,--0,0,0,0,0,0,0,0,0,0,10,--0,0,0,0,0,0,0,0,0,0,0,11,--
R22)
0,0,0,0,0,0,0,0,0,0,10,-->0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0,1,0,--0
,1,0,--0,1,0,--0,1,0,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,2,: 0,1,0,:
LEN=4) 0,0,0,0,: 0,0,0,3,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,4,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,5,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,6,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,7,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,8,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,9,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,10,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,11,:
 Number new nodes in level n is given by : 1,2,3,2,2,2,2,2,2,2,2,2,

----------Class
714----------
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[011][021][100][101][102][110][120][201][210]]
--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,0,1,--0,1,--
R3) 0,1,-->0,1,0,--0,1,2,--
R4) 0,0,0,-->0,0,0,0,--0,0,0,1,--0,0,1,--0,1,--
R5) 0,0,1,-->0,1,0,--0,0,1,2,--0,1,2,--
R6) 0,1,0,-->

R7) 0,1,2,-->0,1,2,--
R8) 0,0,0,0,-->0,0,0,0,0,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R9) 0,0,0,1,-->0,1,0,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R10) 0,0,1,2,-->0,0,1,2,--0,1,2,--
R11) 0,0,0,0,0,-->0,0,0,0,0,0,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R12) 0,0,0,0,1,-->0,1,0,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R13) 0,0,0,1,2,-->0,0,0,1,2,--0,0,1,2,--0,1,2,--
R14)
0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--
0,0,1,--0,1,--
R15)
0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R16) 0,0,0,0,1,2,-->0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R17)
0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--
0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R18)
0,0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,
--0,0,1,2,--0,1,2,--
R19) 0,0,0,0,0,1,2,-->0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R20)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R21)
0,0,0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,
0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R22)
0,0,0,0,0,0,1,2,-->0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,
1,2,--0,1,2,--
R23)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,
--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1
,--
R24)
0,0,0,0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,
1,2,--0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R25)
0,0,0,0,0,0,0,0,1,2,-->0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,0,
1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R26)
0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,
0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0,0,0,0,1,--0,0,0,0,0,1,--0,0,0
,0,1,--0,0,0,1,--0,0,1,--0,1,--
R27)
0,0,0,0,0,0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,0,1,2,--0,0,0,
0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,1,2,--0,1,2,--
R28)
0,0,0,0,0,0,0,0,0,1,2,-->0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--
0,0,0,0,0,1,2,--0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--

R29)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,0,0,0,0,0,0,0,0,0,0,0,1,--0,0,0,
0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,0,1,--0,0,0,0,0,0,0,1,--0,0,0
,0,0,0,1,--0,0,0,0,0,1,--0,0,0,0,1,--0,0,0,1,--0,0,1,--0,1,--
R30)
0,0,0,0,0,0,0,0,0,0,0,1,-->0,1,0,--0,0,0,0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,0,0,0,1,2,--
0,0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,0
,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2,--
R31)
0,0,0,0,0,0,0,0,0,0,1,2,-->0,0,0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,
0,1,2,--0,0,0,0,0,0,0,1,2,--0,0,0,0,0,0,1,2,--0,0,0,0,0,1,2,--0,0,0,1,2,--0,0,1,2,--0,1,2
,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,0,1,: 0,1,0,: 0,1,2,:
LEN=4) 0,0,0,0,: 0,0,0,1,: 0,0,1,2,:
LEN=5) 0,0,0,0,0,: 0,0,0,0,1,: 0,0,0,1,2,:
LEN=6) 0,0,0,0,0,0,: 0,0,0,0,0,1,: 0,0,0,0,1,2,:
LEN=7) 0,0,0,0,0,0,0,: 0,0,0,0,0,0,1,: 0,0,0,0,0,1,2,:
LEN=8) 0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,1,2,:
LEN=9) 0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,1,2,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,0,1,2,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,1,: 0,0,0,0,0,0,0,0,0,1,2,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,: 0,0,0,0,0,0,0,0,0,0,0,1,:
0,0,0,0,0,0,0,0,0,0,1,2,:
 Number new nodes in level n is given by : 1,2,4,3,3,3,3,3,3,3,3,3,

------------------------------Class
715--
Inversion Sequences (I_n=(n+1)!) avoiding
L=[[012][021][100][101][102][110][120][201][210]]

--
Rules of T[L]:
R1) 0,-->0,0,--0,1,--
R2) 0,0,-->0,0,0,--0,1,--0,1,--
R3) 0,1,-->0,1,0,--0,1,1,--
R4) 0,0,0,-->0,0,0,0,--0,1,--0,1,--0,1,--
R5) 0,1,0,-->
R6) 0,1,1,-->0,1,1,--
R7) 0,0,0,0,-->0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--
R8) 0,0,0,0,0,-->0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--
R9) 0,0,0,0,0,0,-->0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R10) 0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
R11)
0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--
R12)
0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,

```
--0,1,--0,1,--
R13)
0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,1,--
0,1,--0,1,--0,1,--0,1,--
R14)
0,0,0,0,0,0,0,0,0,0,0,0,-->0,0,0,0,0,0,0,0,0,0,0,0,0,0,--0,1,--0,1,--0,1,--0,1,--0,1,--0,
1,--0,1,--0,1,--0,1,--0,1,--0,1,--
List of different nodes in T[L]
LEN=1) 0,:
LEN=2) 0,0,: 0,1,:
LEN=3) 0,0,0,: 0,1,0,: 0,1,1,:
LEN=4) 0,0,0,0,:
LEN=5) 0,0,0,0,0,:
LEN=6) 0,0,0,0,0,0,:
LEN=7) 0,0,0,0,0,0,0,:
LEN=8) 0,0,0,0,0,0,0,0,:
LEN=9) 0,0,0,0,0,0,0,0,0,:
LEN=10) 0,0,0,0,0,0,0,0,0,0,:
LEN=11) 0,0,0,0,0,0,0,0,0,0,0,:
LEN=12) 0,0,0,0,0,0,0,0,0,0,0,0,:
 Number new nodes in level n is given by : 1,2,3,1,1,1,1,1,1,1,1,1,
```