```
0

DONE generate tree T0, current index=0
Node list---------------------------------------------

C(n)=C(1)=1
Idempotent count: 1
-----------------------------------------------------
Index   id      Dyck word       func            idempotent?
-----------------------------------------------------
0       0          010101       [1,2,3]     yes
-----------------------------------------------------
INIT generate tree T2, current index=0
INIT generate tree T1, current index=0
INIT generate tree T0, current index=0


0

DONE generate tree T0, current index=0
Node list---------------------------------------------

C(n)=C(1)=1
Idempotent count: 1
-----------------------------------------------------
Index   id      Dyck word       func            idempotent?
-----------------------------------------------------
0       0          010101       [1,2,3]     yes
-----------------------------------------------------


                                                        /\
                      /\/\/\  ------------------------------>   /  \/\
 0,     parent idx: 0   010101   right comp f=1,   child idx: 1   001101
                        [1,2,3]                              [2,2,3]
                        0                                           1


0———1

DONE generate tree T1, current index=1
Node list---------------------------------------------

C(n)=C(2)=2
Idempotent count: 2
-----------------------------------------------------
Index   id      Dyck word       func            idempotent?
-----------------------------------------------------
```

```
0       0          010101       [1,2,3]     yes
1       1          001101       [2,2,3]     yes
-----------------------------------------------------


                                                      /\
                      /\/\/\  ------------------------------>   /\/  \
 1,     parent idx: 0   010101   right comp f=2,   child idx: 2   010011
                        [1,2,3]                               [1,3,3]
                        0                                          2

                                                       /\
                         /\                           /  \
                        /\/  \  ------------------------------>   /    \
 2,     parent idx: 2   010011   right comp f=1,   child idx: 3   000111
                        [1,3,3]                               [3,3,3]
                        2                                          21


                         /\                            /\/\
                        /  \/\  ------------------------------>   /    \
 3,     parent idx: 1   001101   right comp f=2,   child idx: 4   001011
                        [2,2,3]                               [2,3,3]
                        1                                          12


0─┬─1──12
  └─2──21

DONE generate tree T2, current index=4
Node list---------------------------------------------

C(n)=C(3)=5
Idempotent count: 4
-----------------------------------------------------
Index   id      Dyck word       func            idempotent?
-----------------------------------------------------
0       0          010101       [1,2,3]     yes
1       1          001101       [2,2,3]     yes
2       2          010011       [1,3,3]     yes
3       21         000111       [3,3,3]     yes
4       12         001011       [2,3,3]
-----------------------------------------------------


Press enter to finish...
```