

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	0101010101	[1,2,3,4,5]	yes

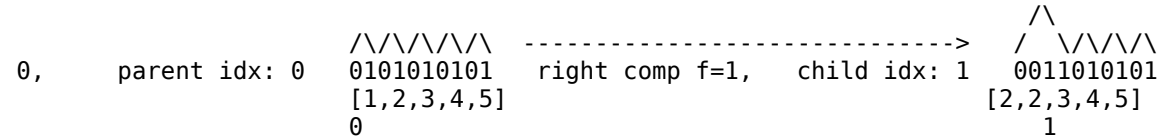
-----  
INIT generate tree T4, current index=0  
INIT generate tree T3, current index=0  
INIT generate tree T2, current index=0  
INIT generate tree T1, current index=0  
INIT generate tree T0, current index=0

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	0101010101	[1,2,3,4,5]	yes



0—1

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

C(n)=C(2)=2

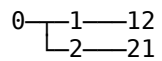
Index	id	Dyck word	func	idempotent?
0	0	0101010101	[1,2,3,4,5]	yes
1	1	0011010101	[2,2,3,4,5]	yes

2,      parent idx: 2           right comp f=1,      child idx: 3     

```

3,      parent idx: 1      /\
      /\  \/\/\  /\
      /  \  \  /  \
      0011010101  right comp f=2,  child idx: 4  /\  /\
      [2,2,3,4,5]  0010110101
      1              [2,3,3,4,5]
                    12

```



```
Node list-----
```

Index	id	Dyck word	func	idempotent?
0	0	0101010101	[1,2,3,4,5]	yes
1	1	0011010101	[2,2,3,4,5]	yes
2	2	0100110101	[1,3,3,4,5]	yes

3	21	0001110101	[3,3,3,4,5]	yes
4	12	0010110101	[2,3,3,4,5]	

-----

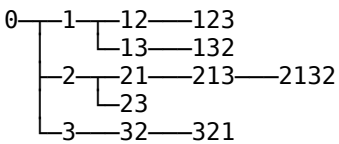
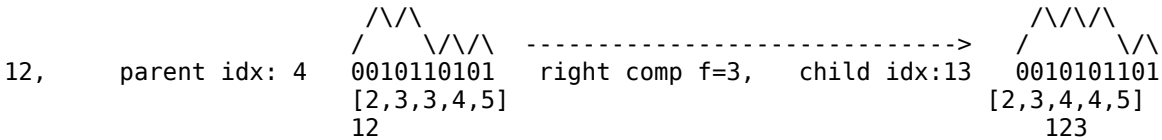
4,	parent idx: 0	<pre>  /\  /\  /\  /\ 0101010101 [1,2,3,4,5] 0</pre>	right comp f=3,	child idx: 5	<pre>      /\      /\  /\  /\ 0101001101 [1,2,4,4,5] 3</pre>
----	---------------	--	-----------------	--------------	--

5,	parent idx: 5	<pre>      /\      /\  /\  /\ 0101001101 [1,2,4,4,5] 3</pre>	right comp f=2,	child idx: 6	<pre>      /\      /\  /\  /\ 0100011101 [1,4,4,4,5] 32</pre>
----	---------------	--	-----------------	--------------	---

6,	parent idx: 6	<pre>      /\      /\  /\  /\ 0100011101 [1,4,4,4,5] 32</pre>	right comp f=1,	child idx: 7	<pre>      /\      /\  /\  /\ 0000111101 [4,4,4,4,5] 321</pre>
----	---------------	---	-----------------	--------------	--

7,	parent idx: 1	<pre>      /\      /\  /\  /\ 0011010101 [2,2,3,4,5] 1</pre>	right comp f=3,	child idx: 8	<pre>      /\  /\      /\  /\  /\ 0011001101 [2,2,4,4,5] 13</pre>
----	---------------	--	-----------------	--------------	---

8,	parent idx: 8	<pre>      /\  /\      /\  /\  /\ 0011001101 [2,2,4,4,5] 13</pre>	right comp f=2,	child idx: 9	<pre>      /\      /\  /\  /\ 0010011101 [2,4,4,4,5] 132</pre>
----	---------------	---	-----------------	--------------	--



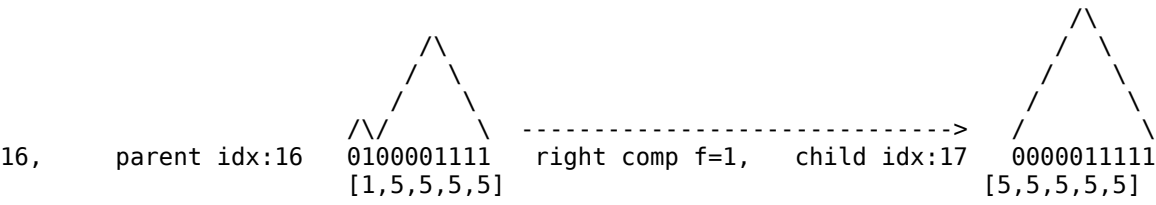
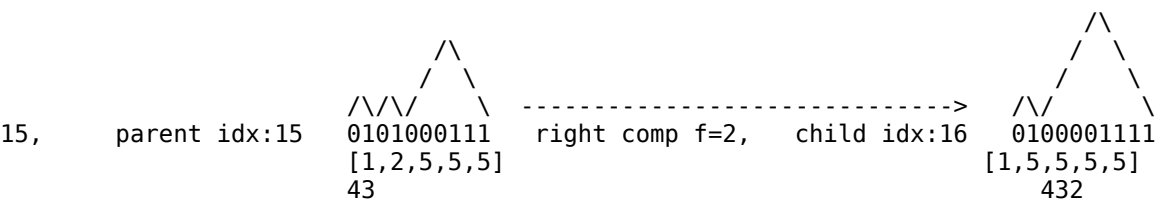
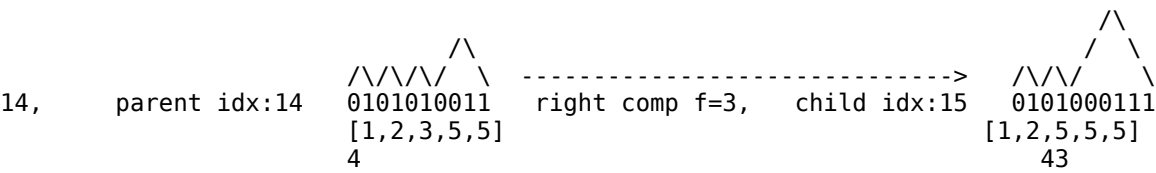
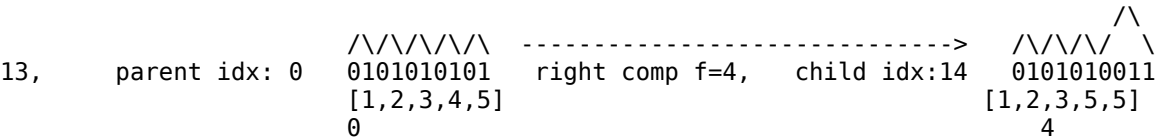
```
DONE generate tree T3, current index=13
Node list-----
```

$C(n)=C(4)=14$   
Idempotent count: 8

Index	id	Dyck word	func	idempotent?
0	1			
1	2			
2	3			
3	4			
4	5			
5	6			
6	7			
7	8			
8	9			
9	10			
10	11			
11	12			
12	13			
13	14			
14	15			
15	16			
16	17			
17	18			
18	19			
19	20			
20	21			
21	22			
22	23			
23	24			
24	25			
25	26			
26	27			
27	28			
28	29			
29	30			
30	31			
31	32			
32	33			
33	34			
34	35			
35	36			
36	37			
37	38			
38	39			
39	40			
40	41			
41	42			
42	43			
43	44			
44	45			
45	46			
46	47			
47	48			
48	49			
49	50			
50	51			
51	52			
52	53			
53	54			
54	55			
55	56			
56	57			
57	58			
58	59			
59	60			
60	61			
61	62			
62	63			
63	64			
64	65			
65	66			
66	67			
67	68			
68	69			
69	70			
70	71			
71	72			
72	73			
73	74			
74	75			
75	76			
76	77			
77	78			
78	79			
79	80			
80	81			
81	82			
82	83			
83	84			
84	85			
85	86			
86	87			
87	88			
88	89			
89	90			
90	91			
91	92			
92	93			
93	94			
94	95			
95	96			
96	97			
97	98			
98	99			
99	100			

0	0	0101010101	[1,2,3,4,5]	yes
1	1	0011010101	[2,2,3,4,5]	yes
2	2	0100110101	[1,3,3,4,5]	yes
3	21	0001110101	[3,3,3,4,5]	yes
4	12	0010110101	[2,3,3,4,5]	
5	3	0101001101	[1,2,4,4,5]	yes
6	32	0100011101	[1,4,4,4,5]	yes
7	321	0000111101	[4,4,4,4,5]	yes
8	13	0011001101	[2,2,4,4,5]	yes
9	132	0010011101	[2,4,4,4,5]	
10	23	0100101101	[1,3,4,4,5]	
11	213	0001101101	[3,3,4,4,5]	
12	2132	0001011101	[3,4,4,4,5]	
13	123	0010101101	[2,3,4,4,5]	

-----



4321

 $\wedge$

22, parent idx: 3

```

  /  \
 /    \
0001110101
[3,3,3,4,5]
21

```

right comp f=4, child idx:23

```

  /  \  \
 /    \  \
0001110011
[3,3,3,5,5]
214

```

23, parent idx:23

```

  /\  /\
 /  \  \
0001110011
[3,3,3,5,5]
214

```

right comp f=3, child idx:24

```

  /\  /\
 /  \  \
0001100111
[3,3,5,5,5]
2143

```

24, parent idx:24

```

  /\  /\
 /  \  \
0001100111
[3,3,5,5,5]
2143

```

right comp f=2, child idx:25

```

  /\
 /  \
0001001111
[3,5,5,5,5]
21432

```

25, parent idx: 4

```

  /\
 /  \
0010110101
[2,3,3,4,5]
12

```

right comp f=4, child idx:26

```

  /\  /\
 /  \  \
0010110011
[2,3,3,5,5]
124

```

26, parent idx:26

```

  /\  /\
 /  \  \
0010110011
[2,3,3,5,5]
124

```

right comp f=3, child idx:27

```

  /\  /\
 /  \  \
0010100111
[2,3,5,5,5]
1243

```

27, parent idx: 5

```

  /\
 /  \
0101001101
[1,2,4,4,5]
3

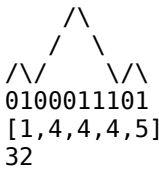
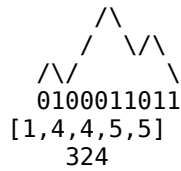
```

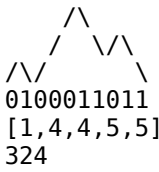
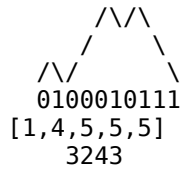
right comp f=4, child idx:28

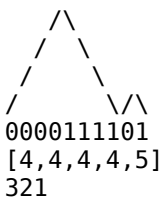
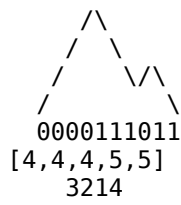
```

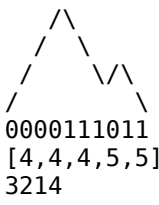
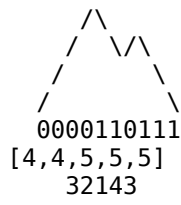
  /\  \
 /  \  \
0101001011
[1,2,4,5,5]
34

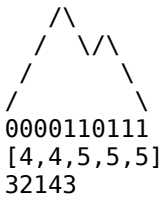
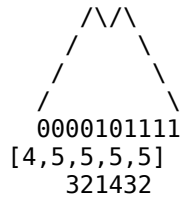
```

28,      parent idx: 6            ----->        
right comp f=4,      child idx:29

29,      parent idx:29            ----->        
right comp f=3,      child idx:30

30,      parent idx: 7            ----->        
right comp f=4,      child idx:31

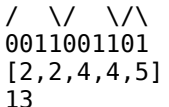
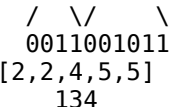
31,      parent idx:31            ----->        
right comp f=3,      child idx:32

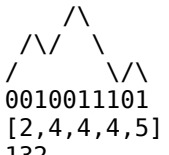
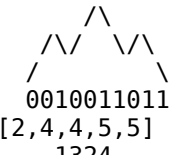
32,      parent idx:32            ----->        
right comp f=2,      child idx:33

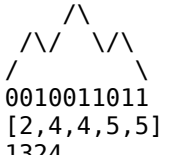
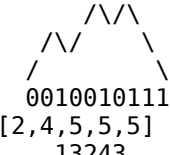
/\    /\

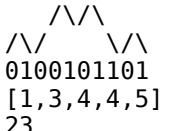
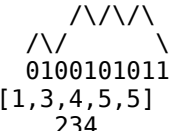
/\    /\

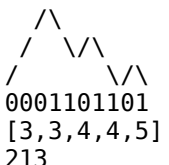
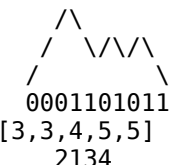


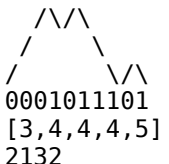
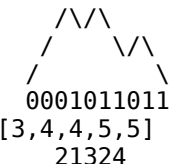
33, parent idx: 8  ----->   
 right comp f=4, child idx:34

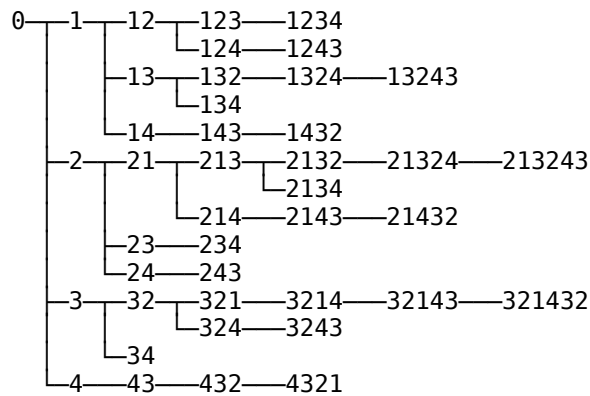
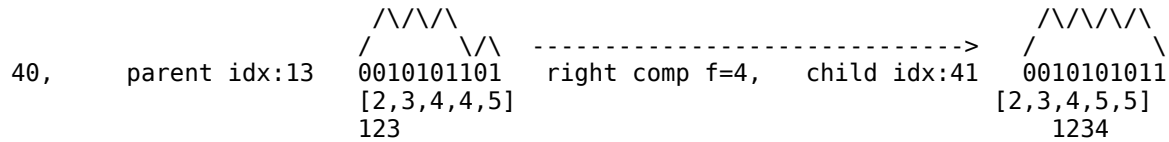
34, parent idx: 9  ----->   
 right comp f=4, child idx:35

35, parent idx:35  ----->   
 right comp f=3, child idx:36

36, parent idx:10  ----->   
 right comp f=4, child idx:37

37, parent idx:11  ----->   
 right comp f=4, child idx:38

38, parent idx:12  ----->   
 right comp f=4, child idx:39



Node list-----

Idempotent count: 16

Index	id	Dyck word	func	idempotent?
0	0	0101010101	[1,2,3,4,5]	yes
1	1	0011010101	[2,2,3,4,5]	yes
2	2	0100110101	[1,3,3,4,5]	yes
3	21	0001110101	[3,3,3,4,5]	yes
4	12	0010110101	[2,3,3,4,5]	
5	3	0101001101	[1,2,4,4,5]	yes
6	32	0100011101	[1,4,4,4,5]	yes
7	321	0000111101	[4,4,4,4,5]	yes

8	13	0011001101	[2,2,4,4,5]	yes
9	132	0010011101	[2,4,4,4,5]	
10	23	0100101101	[1,3,4,4,5]	
11	213	0001101101	[3,3,4,4,5]	
12	2132	0001011101	[3,4,4,4,5]	
13	123	0010101101	[2,3,4,4,5]	
14	4	0101010011	[1,2,3,5,5]	yes
15	43	0101000111	[1,2,5,5,5]	yes
16	432	0100001111	[1,5,5,5,5]	yes
17	4321	0000011111	[5,5,5,5,5]	yes
18	14	0011010011	[2,2,3,5,5]	yes
19	143	0011000111	[2,2,5,5,5]	yes
20	1432	0010001111	[2,5,5,5,5]	
21	24	0100110011	[1,3,3,5,5]	yes
22	243	0100100111	[1,3,5,5,5]	
23	214	0001110011	[3,3,3,5,5]	yes
24	2143	0001100111	[3,3,5,5,5]	
25	21432	0001001111	[3,5,5,5,5]	
26	124	0010110011	[2,3,3,5,5]	
27	1243	0010100111	[2,3,5,5,5]	
28	34	0101001011	[1,2,4,5,5]	
29	324	0100011011	[1,4,4,5,5]	
30	3243	0100010111	[1,4,5,5,5]	
31	3214	0000111011	[4,4,4,5,5]	
32	32143	0000110111	[4,4,5,5,5]	
33	321432	0000101111	[4,5,5,5,5]	
34	134	0011001011	[2,2,4,5,5]	
35	1324	0010011011	[2,4,4,5,5]	
36	13243	0010010111	[2,4,5,5,5]	
37	234	0100101011	[1,3,4,5,5]	
38	2134	0001101011	[3,3,4,5,5]	
39	21324	0001011011	[3,4,4,5,5]	
40	213243	0001010111	[3,4,5,5,5]	
41	1234	0010101011	[2,3,4,5,5]	

-----

Press enter to finish...