Sum of subsets

Given positive numbers $w_i, 1 \le i \le n$, and m, this problem calls for finding all subsets of the w_i whose sums are m.

$n=4$, $(w_1, w_2, w_3, w_4) \Rightarrow (11, 13, 24, 7)$

$m=31$ then

Ex with result is desired subsets longer2

$(11, 13, 7)$ / $(7, 11, 13)$, $(24, 7)$ / $(7, 24)$

length 3

Ex 2 The length of all tuple better be same

Answer: 0 means not to take
1 means take it

11, 13, 24, 7 m = 31

11, 13, 7 7, 24

(1, 1, 0, 1) (0, 0, 1, 1)

the length has to do with levels/height of tree/paths

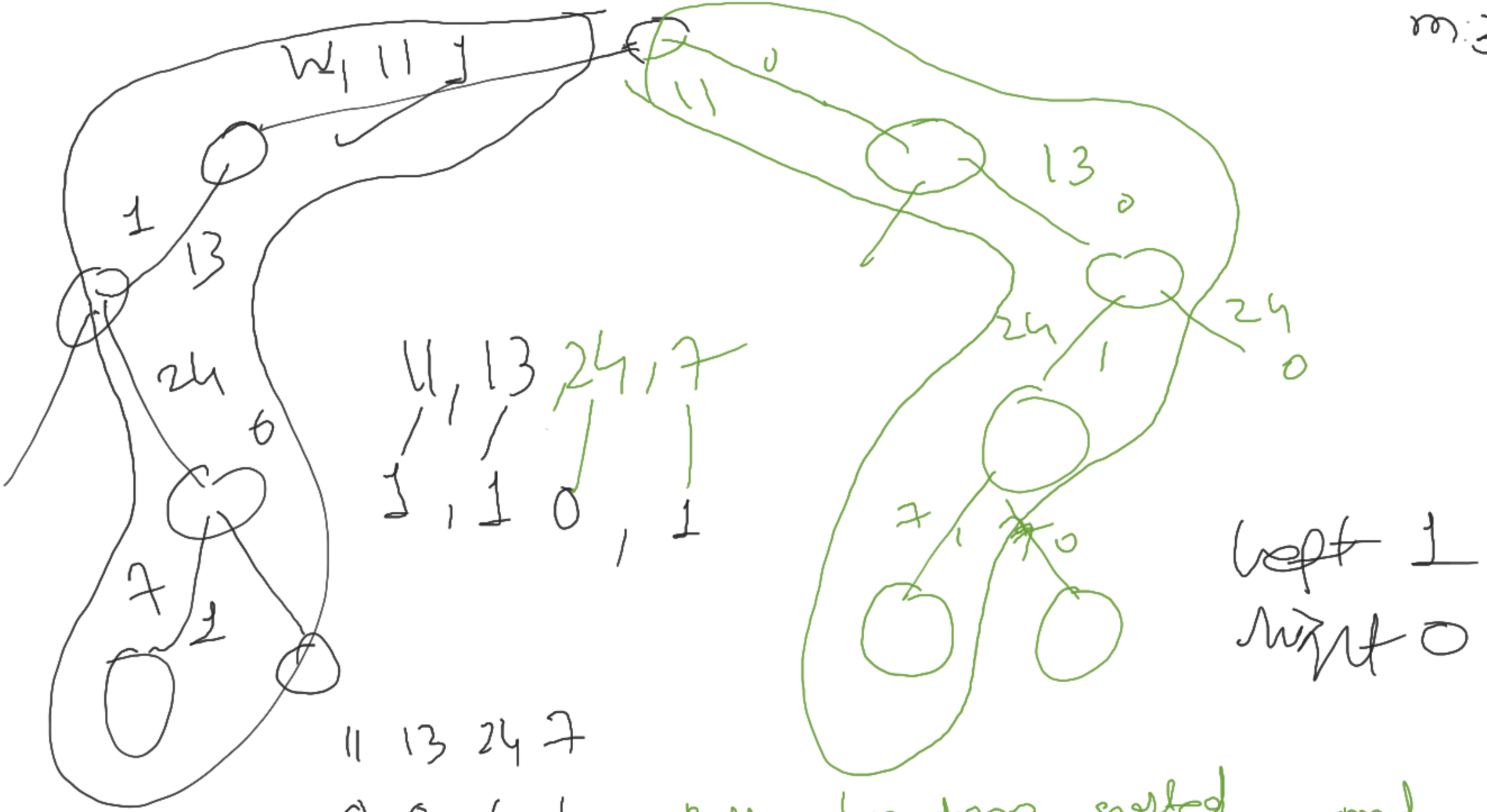
possible solution space organization for the sum of subsets problem

7 → 11 → 13

11 → 7 → 13

13 → 11 → 7

m:31


W, 11]
1
13
24
6
7
1
11, 13 24, 7
1 , 1 0 , 1
11 13 24 7
0 0 1 1
0
11
13
0
24
1
24
0
7
1
0
left 1
right 0
Better be done sorted and then
7, 11, 13, 24. Indeed