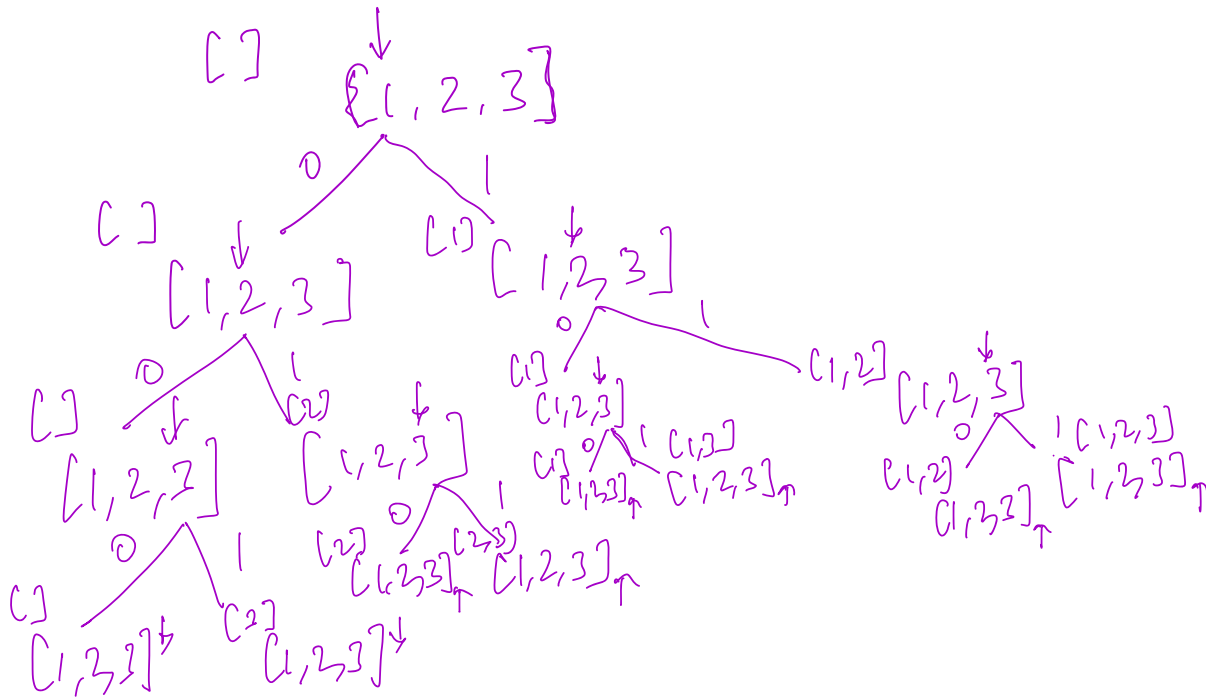


DI Revision

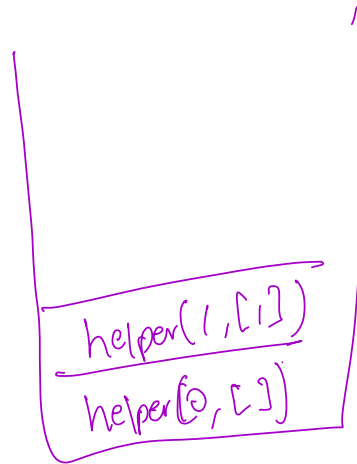
Optimize time & space for all solutions below.



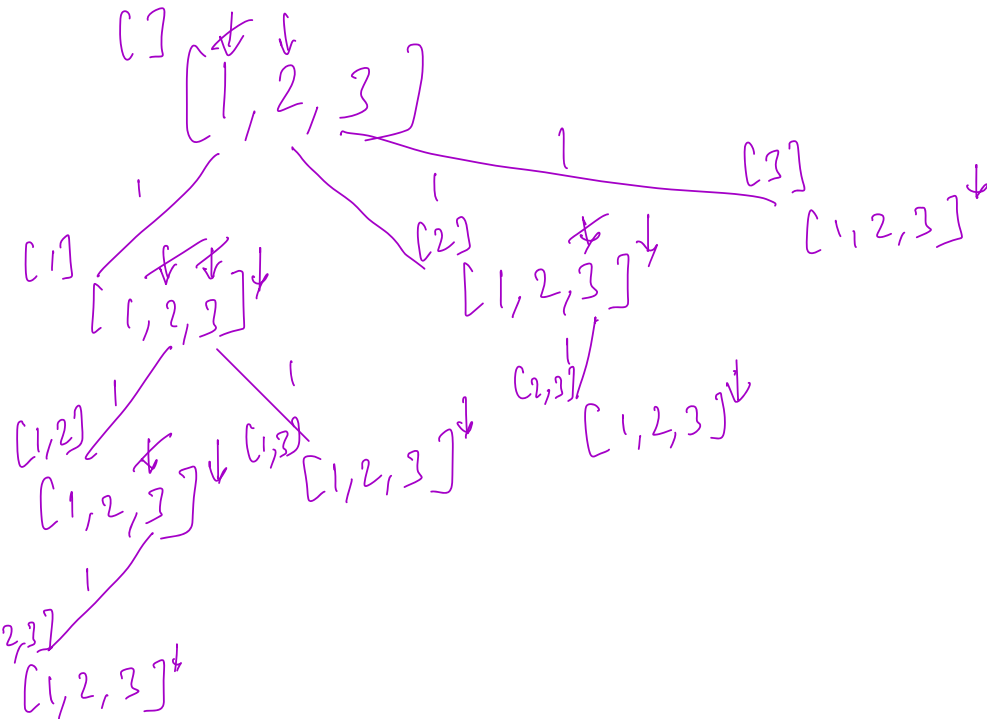
yes = $[\square, [3], [2], [2,3], [1], [1,3], [1,2], [1,2,3]]$

Leaves of our Recursion Tree

For Recursion



~~$\text{helper}(0, [])$~~
 ~~$\text{helper}(1, [1])$~~
 $\text{helper}(2, [1, 2])$
 $\text{helper}(3, [1, 2, 3])$



$\text{res} = [[], [1], [1, 2], [1, 2, 3], [1, 3], [2], [2, 3], [1, 2, 3]]$

all nodes of recursion Tree

$[] ,$

Iterative

Optimized TC

Optimize SC

result = []

[1] [1], [1]

[2] [1], [2], [1, 2]

[3] [1], [2], [1, 2], [3], [1, 3], [2, 3], [1, 2, 3]

2^n total combinations.