

# Solution Maze (Optimized Recursion)

## # Thought Process

→ We Goto write a Recursion Sucha Way For every Steps its generate a unique list

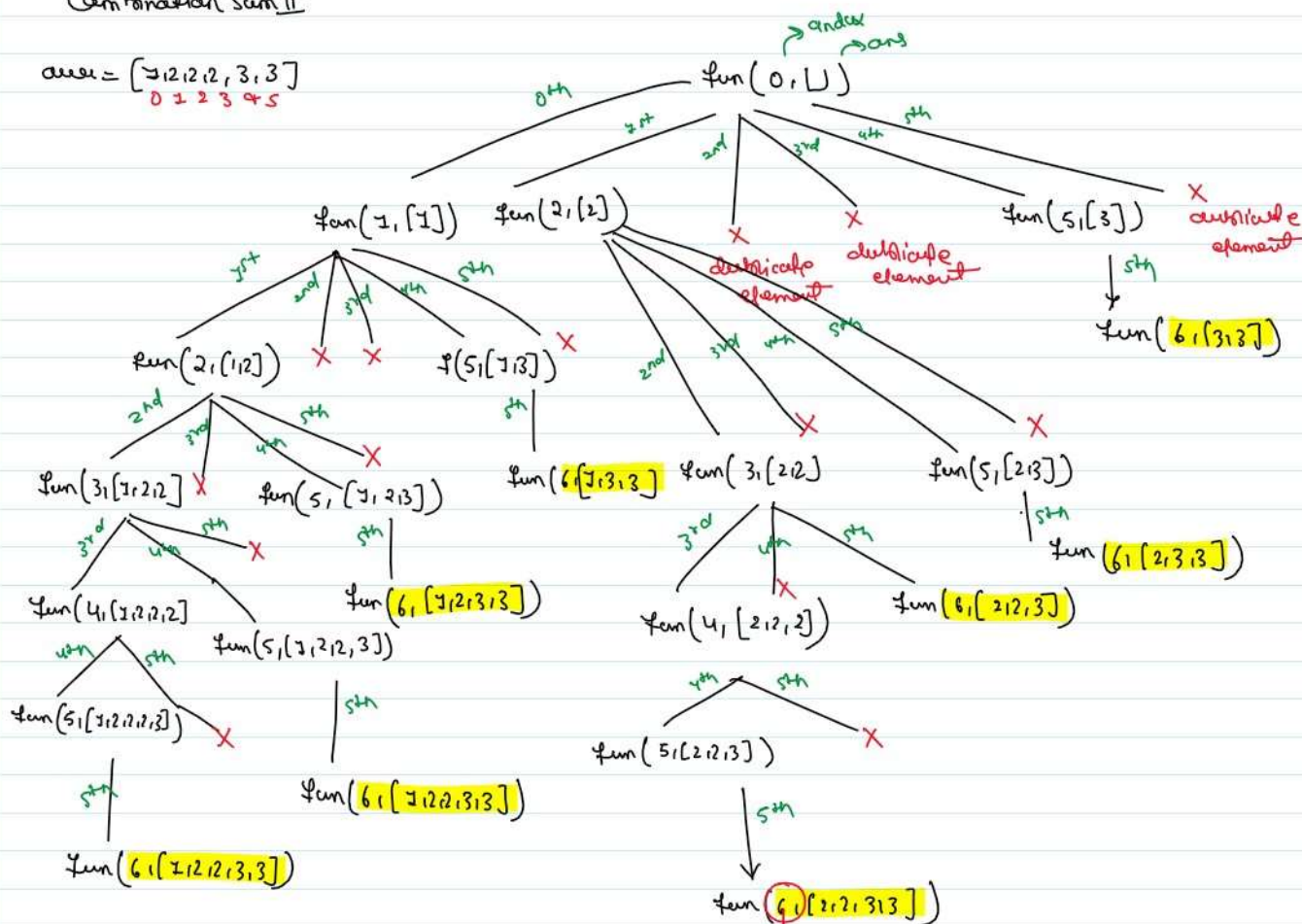
ans = [1, 2, 2, 2, 3, 3]  
0 1 2 3 4 5

N = 6

→ Now here we used the concept that we learned in Combination Sum II For finding every unique Combination

→ Start with Empty list and push into the answers and check every combination like we do in the Combination Sum II

ans = [1, 2, 2, 2, 3, 3]  
0 1 2 3 4 5



Time Complexity =  $2^N \times K$

→ every recursion Combination Pick or Not Pick

→ length of every Subset that push into the data structure that take same time

→ once the index is  $\geq \text{len}(\text{ans})$  then stop the recursion and return the answer

Space Complexity =  $2^N \times K \times N$  → Recursion Stack Space  
→ For the answer take