

RECURSION Concepts



& Qns

“

video
10

मैं, DSA की शपथ
लेता हूँ कि मैं जो पढ़ाउगा
वहीत अच्छे से पढ़ाउगा। ”

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Motivation
(भाषण)

ep Don't be discouraged by the
complexity of data & algorithms.
Break down the concepts into
smaller, manageable pieces.
"That's how you can crack any tough problem..."

#code story with MIK ...

MICROSOFT

78. Subsets

Medium

Topics

Companies

Given an integer array `nums` of unique elements, return all possible subsets (the power set).

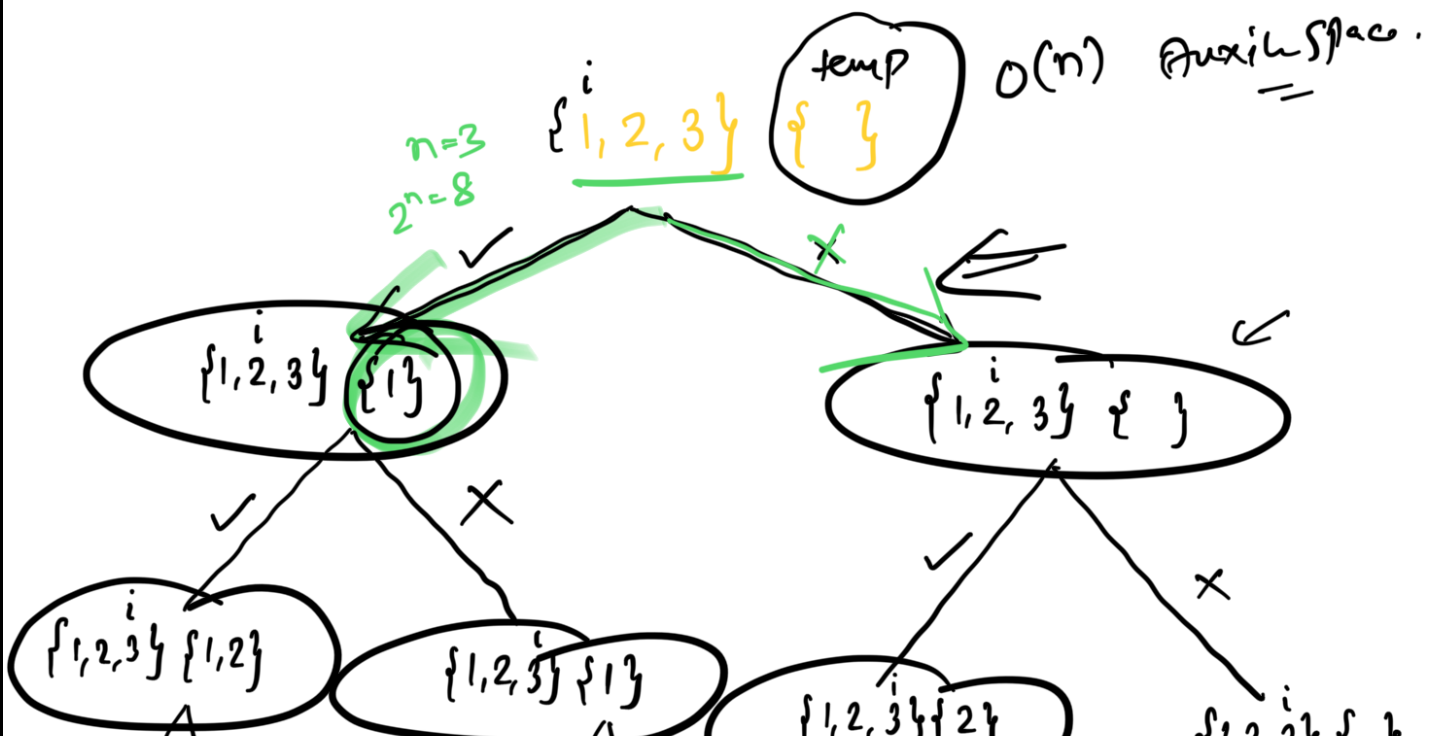
The solution set **must not** contain duplicate subsets. Return the solution in **any** order.

Example :: $nums = \{1, 2, 3\}$

take
not-take

Output = $\left[\{ \}, \{1\}, \{2\}, \{3\}, \{1,2\}, \{1,3\}, \{2,3\}, \{1,2,3\} \right]$

Options \rightarrow Recursion
Hint.



(Trust)

```
Solve (nums, i, temp) {  
    if (i >= nums.size()) {  
        result.push-back(temp);  
    }
```

Backtracking

key of faith.

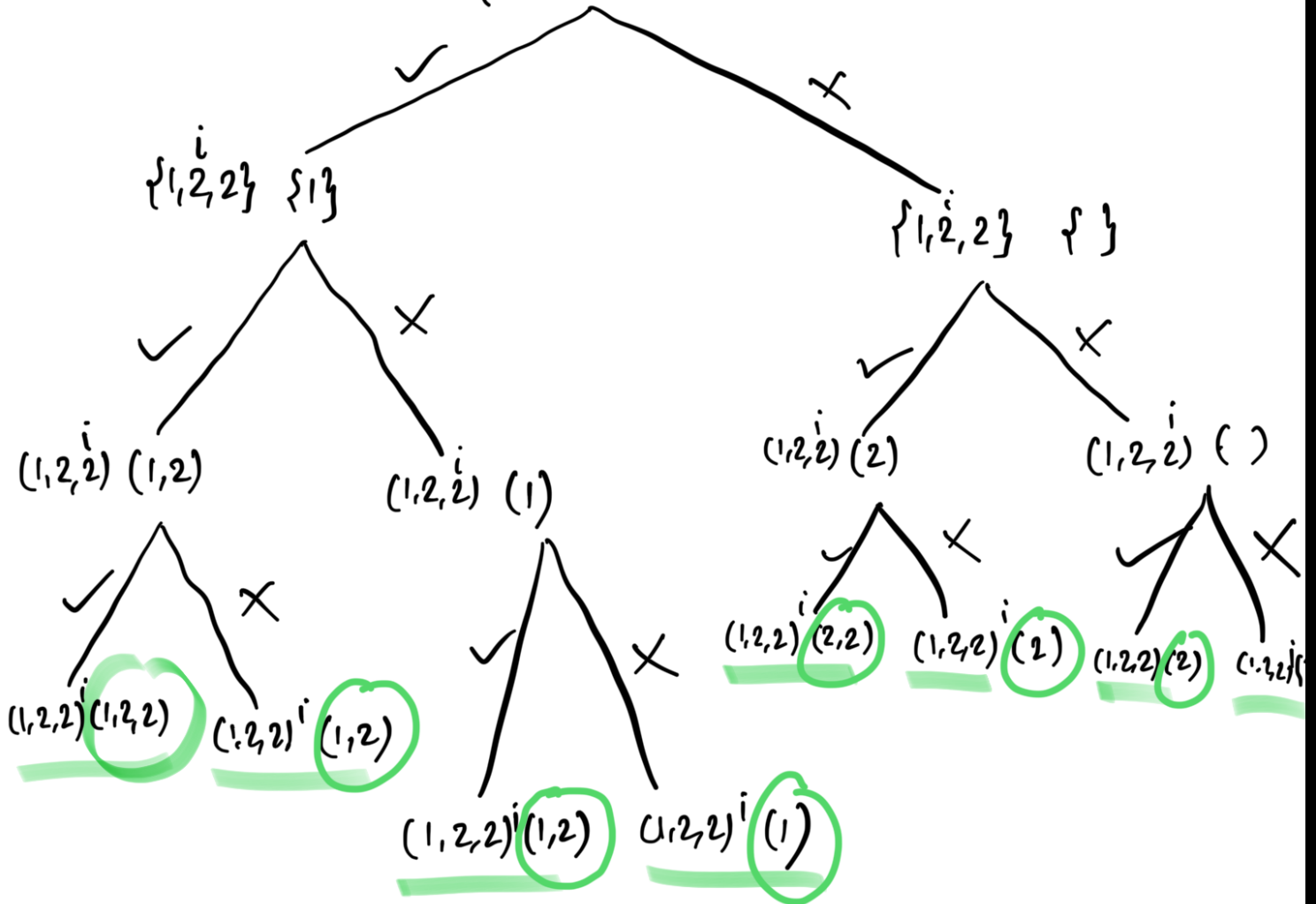
```
        temp.push-back(nums[i]); // Take  
        Solve (nums, i+1, temp); // Trust  
        temp.pop-back(); // not-take  
        Solve (nums, i+1, temp); // Trust  
    }
```

what if we have

duplicate elements :-

Duplicate Elements

nums = { 1, 2, 2 } { }



(1, 2, 2)

(1, 2) * duplicate

(1)

(2, 2)

(2) * dupli-



()