78. Subsets 13 February 2022 10:24 AM
Given an integer array nums of unique elements, return <i>all possible</i> subsets (the power set).
The solution set must not contain duplicate subsets. Return the solution in any order .
Example 1:
<pre>Input: nums = [1,2,3] Output: [[],[1],[2],[1,2],[3],[1,2,3]]</pre>
Example 2:
Input: nums = [0] Output: [[],[0]]
ender
not pick (me)
pick Soutput arr
$\{1,2,3\},\{3\}$
$\{1,2,3\}\{\}$ $\{1,2,3\}\{2\}$ $\{1,2,3\}\{1\}$ $\{1,2,3\}$
(1,2,3)(1,2,3)(1,3)
\(\lambda_{1,2,3}\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
{ (, 3)
Ars

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class Solution {
private:
    void solve(vector<int> nums, vector<int> output, int index, vector<vector<int>> &ans){
        // base case
        if(index >= nums.size()){
            ans.push_back(output)
            return ;
        }
        //not pick
        solve(nums, output, index + 1, ans);
        // pick // include the elements
        int element = nums[index];
        output.push_back(element);
        solve(nums, output, index+1, ans)
public:
    vector<vector<int>> subsets(vector<int>& nums) {
        vector<vector<int>> ans;
        vector<int> output;
        int index = 0;
        solve(nums, output, index, ans);
        return ans;
    }
};
```