

78. Subsets

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Total Accepted: **138539** Total Submissions: **374396** Difficulty: **Medium** Contributors: **Admin**

Given a set of **distinct** integers, *nums*, return all possible subsets.

Note: The solution set must not contain duplicate subsets.

For example,

If *nums* = [1,2,3] , a solution is:

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

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C++ ▾





```
1 class Solution {
2 public:
3     vector<vector<int>> subsets(vector<int>& nums) {
4         vector<int> path;
5         vector<vector<int>> res;
6         helper(nums,0,path,res);
7         return res;
8     }
9     void helper(vector<int>& nums,int from,vector<int>& path,vector<vector<int>>& res){
10         if(from>=nums.size()) {
11             res.push_back(path);
12         }
13         else{
14             path.push_back(nums[from++]);
15             helper(nums,from,path,res);
16             path.pop_back();
17             helper(nums,from,path,res);
18         }
19     }
20 };
```

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