78. Subsets

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Total Accepted: **138542** Total Submissions: **374399** 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   sort(nums.begin(),nums.end());
5
6      vector<int> s;
7      vector<vector<int>> result(1,s);
8      int n = nums.size(),j;
9
10     for(int i = 0 ; i+1<1<<n;i++)
11     {
12         for(j = 0; (i>>j)&1;j++) s.pop_back();
13         s.push_back(nums[n - j - 1]);
14         result.push_back(s);
15     }
16
17     return result;
18     }
19 };
```

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