# 090. Subsets II

## 090 Subsets II

• Backtracking + Array

#### **Description**

Given a collection of integers that might contain duplicates, nums, return all possible subsets (the power set).

Note: The solution set must not contain duplicate subsets.

For example,

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

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

### 1. Thought line

#### 2. Backtracking + Array

```
class Solution {
private:
   if (st>nums.size()-1) return;
      for (int i = st; i<=nums.size()-1; ++i){</pre>
        temp.push_back(nums[i]);
         result.push_back(temp);
         backtrackingSubsets(nums, i+1, result, temp);
         temp.pop_back();
         while(i+1 \le nums.size()-1 \&\& nums[i+1] == nums[i])
        ++i;
public:
   vector<vector<int>>> subsetsWithDup(vector<int>& nums) {
      vector<vector<int>> result = {{}};
      vector<int> temp;
      sort(nums.begin(), nums.end());
      backtrackingSubsets(nums, 0, result, temp);
      return result;
};
```