```cpp
class Solution {
public:
    vector<vector<int>> subsets(int n, vector<int>& nums){
        if (n == 0){
            return vector<vector<int>>(1, vector<int>{});
        }
        else{
            vector<vector<int>> subset = subsets(n - 1, nums);
            vector<vector<int>> AllSubsets = subset;

            for (int i = 0; i < subset.size(); i++){
                subset[i].push_back(nums[n - 1]);
                AllSubsets.push_back(subset[i]);
            }
            return AllSubsets;
        }
    }
    vector<vector<int>> subsets(vector<int>& nums) {
        return subsets(nums.size(), nums);
    }
};
```