

COMPUTER SCIENCE & ENGINEERING

Experiment3.2

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BRANCH-BTECH CSE
SUB- CC LAB

- 1. Aim:

 → To implement the concept of backtracking.
- 2. Objective:
 - ⇒ The objective is to build problem solving capability and to learn the basic concepts of data structures.
 - ⇒ The implementation of Combination which shows and brushes up the concept of greedy.
- 3. Leetcode code and output:

☐ COMBINATION CODE=

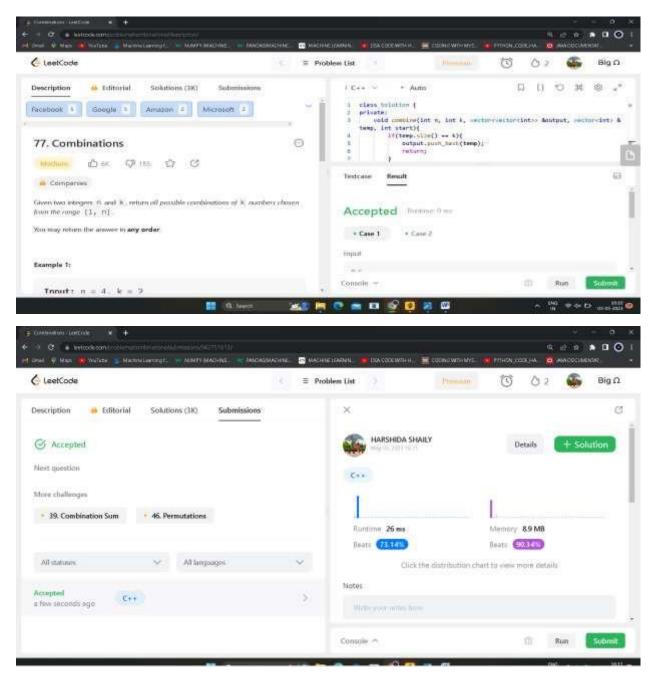
```
class Solution { private: void combine(int n, int k, vector<vector<int>>>
&output, vector<int> &temp, int start){
                                    if(temp.size() == k){
output.push_back(temp);
                               return;
             for(int i=start;
i<=n; i++){
output, temp, i+1);
                         temp.pop_back();
      }
      public:
   vector<vector<int>> combine(int n, int k) {
vector<vector<int>> output;
                         vector<int>
temp;
      combine(n, k, output, temp, 1);
return output;
} };
```



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OUTPUT=



□ SUBETS



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CODE

```
class Solution { public:
    void pS(int ind,vector<int> &nums,vector<int> &v,vector<vector<int>> &ans){
if(ind==nums.size()){
                                  ans.push_back(v);
                                                                 return;
        }
        v.push_back(nums[ind]);
pS(ind+1,nums,v,ans);
        v.pop_back();
pS(ind+1,nums,v,ans);
             vector<vector<int>>
    }
subsets(vector<int>& nums) {
vector<vector<int>> ans;
                                 vector<int> v;
pS(0,nums,v,ans);
                          return ans;
    } };
OUTPUT=
```

4 LestCode. 3 02 ☐ Problem List Description Editorial 👄 Solutions (7.7K) Submissions. C++ -D 11 50 30 60 .** (3) 78. Subsets Marine Street Part O C ans, posh_burn(v); osturn; @ Companies Given an integer array muchs of sinique elements, inturn of possible subserts (the **Testone** The sphilippinet must not coptain displicate subsets. Return the solipion in any order. Accepted Farmer to + Case 1 + Case 2 Example 1: haquel Input: nums = [1,2,3] Output: [[],[1],[2],[1,2],[3],[1,3],[2,3], €moole = [1,2,3]] 📻 📾 🚱 🧿 👼 🖾 📭



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