**77. Combinations :-**

Medium Accepted: 716.1K Submissions: 1.1M Acceptance Rate: 68.1%

Given two integers n and k, return *all possible combinations of* k *numbers chosen from the range* [1, n].

You may return the answer in **any order**.

**Example 1:**

**Input:** n = 4, k = 2

**Output:** [[1,2],[1,3],[1,4],[2,3],[2,4],[3,4]]

**Explanation:** There are 4 choose 2 = 6 total combinations.

Note that combinations are unordered, i.e., [1,2] and [2,1] are considered to be the same combination.

**Example 2:**

**Input:** n = 1, k = 1

**Output:** [[1]]

**Explanation:** There is 1 choose 1 = 1 total combination.

**Constraints:**

* 1 <= n <= 20
* 1 <= k <= n

**Code :-**

**class Solution {**

**public:**

**void func(vector<vector<int>> &ans, vector<int> &temp, int &n, int k, int start){**

**if(k == 0){**

**ans.push\_back(temp);**

**return;**

**}**

**for(auto i=start; i<=n; i++){**

**temp.push\_back(i);**

**func(ans, temp, n, k-1, i+1);**

**temp.pop\_back();**

**}**

**return;**

**}**

**vector<vector<int>> combine(int n, int k) {**

**vector<vector<int>> ans;**

**vector<int> temp;**

**func(ans, temp, n, k, 1);**

**return ans;**

**}**

**};**