**Topic:** [**Programming**](https://www.interviewbit.com/courses/programming) **/** [**Arrays**](https://www.interviewbit.com/courses/programming/topics/arrays/) **/ Pascal Triangle**

**Question:**

**Given numRows, generate the first numRows of Pascal’s triangle.**

**Pascal’s triangle : To generate A[C] in row R, sum up A’[C] and A’[C-1] from previous row R - 1.**

**Example:**

**Given numRows = 5,**

**Return**

**[**

**[1],**

**[1,1],**

**[1,2,1],**

**[1,3,3,1],**

**[1,4,6,4,1]**

**]**

**Code :**

**#include <bits/stdc++.h>**

**using namespace std;**

**void solve(int n){**

**int B[n][n];**

**for(int i=0;i<n;i++)**

**{**

**for(int j=0;j<=i;j++)**

**{**

**if(j==0||j==i)**

**B[i][j]=1;**

**else**

**B[i][j]=B[i-1][j]+B[i-1][j-1];**

**}**

**}**

**for(int i=0;i<n;i++){**

**for(int j=0;j<=i;j++)**

**{**

**cout<<B[i][j]<<" ";**

**}**

**cout<<endl;**

**}**

**}**

**int main()**

**{**

**int n;**

**cin>>n;**

**solve(n);**

**return 0;**

**}**

**InterviewBit answer:**

**vector<vector<int> > Solution::solve(int A) {**

**vector<vector<int>> B(A);**

**for (int i = 0; i < A; i++)**

**{**

**for (int j = 0; j <= i; j++)**

**{**

**if (j == 0 || j == i)**

**B[i].push\_back(1);**

**else**

**B[i].push\_back(B[i - 1][j] + B[i - 1][j - 1]);**

**}**

**}**

**return B;**

**}**