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

**Question:**

**Given an index k, return the kth row of the 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:**

**Input : k = 3**

**Return : [1,3,3,1]**

***NOTE : k is 0 based. k = 0, corresponds to the row [1].***

***Note:Could you optimize your algorithm to use only O(k) extra space?***

**Code :**

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

**vector<int> res(A+1);**

**res[0]=1;**

**for(int i=0;i<=A/2;i++)**

**{**

**res[i+1]=((A-i)\*res[i])/(i+1);**

**res[A-i]=res[i];**

**}**

**return res;**

**}**