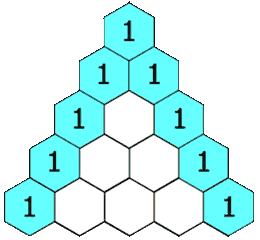
**Pascal’s Triangle :**

You are given a number n, you are required to print the first n rows of the Pascal triangle.



Your task is to complete the function Pascal triangle which receives n as the parameters and returns a 2D array containing the first n rows of Pascal’s triangle.

**Input Format**

You are given a single integer n representing the number of rows of Pascal’s triangle.

**Output Format**

Print n lines of output, where the ith line represents the ith row of the triangle.

**Example 1**

**Input**

3

**Output**

1

1 1

1 2 1

**Example 2**

**Input**

5

**Output**

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

**Constraints:**

1<= n <= 30

**Code:**

**import java.util.\*;**

**public class Main {**

**public static void main(String[] args) throws Throwable {**

**Scanner sc = new Scanner(System.in);**

**int n = sc.nextInt();**

**ArrayList<ArrayList<Integer>> triangle = pascalTriangle(n);**

**for (int i = 0; i < triangle.size(); i++) {**

**for (int j = 0; j < triangle.get(i).size(); j++) {**

**System.out.print(triangle.get(i).get(j) + " ");**

**}**

**System.out.println();**

**}**

**}**

**public static ArrayList<ArrayList<Integer>> pascalTriangle(int n) {**

**// write code here**

**ArrayList<ArrayList<Integer>> pasc = new ArrayList<ArrayList<Integer>>();**

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

**ArrayList<Integer> row = new ArrayList<Integer>();**

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

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

**row.add(1);**

**}else{**

**row.add(pasc.get(i-1).get(j-1)+pasc.get(i-1).get(j));**

**}**

**}**

**pasc.add(row);**

**}**

**return pasc;**

**}**

**}**