https://course.acciojob.com/idle?question=3ea48979-4d89-4667-88ad-70b779c5db88

- EASY
- Max Score: 30 Points

Pascal's Triangle

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.

Input

First line contains integer K

Output

Print Pascal's triangle

Example 1

Input

```
5
```

Output

```
1
1 1
1 2 1
```

```
1 3 3 1
1 4 6 4 1
```

Explanation

The pascal triangle has been printed for the given value.

Constraints

0 <= numRows <= 25

Topic Tags

- **Loops**
- **2D-Arrays**

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

//0C0
//1C0   1C1
//2C0   2C1   2C2
// n ! / ( n – r ) ! r !

//this pattern
public class Main {

public static void solve(int A) {
    int res[][] = new int[A][];
```

```
    int i , j;
    for(i = 0; i < A; i++)
    {
        res[i] = new int[i+1];
        res[i][0] = res[i][i] = 1;
    }
    for(i = 2; i < A; i++)
    {
        for(j = 1; j < i; j++)
        {
            res[i][j] = res[i-1][j-1] + res[i-1][j];
        }

    }

    for(i=0;i<res.length;i++)
  {
      for(j=0;j<res[i].length;j++)
      {
          System.out.print(res[i][j]+" ");
      }

  System.out.println("");
  }

}
  public static void main (String[] args)
        {
                Scanner sc = new Scanner(System.in);
          int K = sc.nextInt();
      solve(K);
```

```
        }
    }
```