# Pascal's Triangle

For a given integer $K$, print the first $K$ rows of Pascal's Triangle. Print each row with each value separated by a single space. The value at the $n$^{$th$} row and $r$^{$th$} column of the triangle is equal to $n! / (r! * (n-r)!)$ where indexing starts from $0$. These values are the binomial coefficients.

### The Pascal Triangle

```
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
....
```

### Input Format

A single line of input, integer $K$.

### Constraints

$2 <= K <= 10$

### Output Format

Output the first $K$ rows of Pascal's triangle.

### Sample Input

```
4
```

### Sample Output

```
1
1 1
1 2 1
1 3 3 1
```