

# Number Diamond Pattern

Print the following pattern for input n. (Observe the spaces carefully before solving)

### Input Format

An integer n is given as input.

### Constraints

$$2 \leq n \leq 20$$

### Output Format

Print the pattern.

### Sample Input 0

2

### Sample Output 0

```
  0
0 1 0
0 1 2 1 0
0 1 0
0
```

### Sample Input 1

3

### Sample Output 1

```
  0
0 1 0
0 1 2 1 0
0 1 2 3 2 1 0
0 1 2 1 0
0 1 0
0
```