

Task target

# **Target**

Mouse Stefanie likes to throw around things. Stofl wants to give her some targets for her birthday so she can practise throwing stuff.

Targets have a 0 in the center and on each outer field they have the distance to the center. See the samples on how this might look.

### Input

One integer n, the radius of the target.

# **Output**

Print the target.

#### Limits

There are 7 test groups.

- In test group 1 for 10 points: n = 0.
- In test group 2 for 10 points: n = 1.
- In test group 3 for 10 points: n = 2.
- In test group 4 for 10 points: n = 3.
- In test group 5 for 10 points: n = 4.
- In test group 6 for 20 points:  $5 \le n \le 9$ .
- In test group 7 for 30 points:  $10 \le n \le 100$ .

## **Examples**

Input	Output
4	4 4 4 4 4 4 4 4 4
	4 3 3 3 3 3 3 4
	4 3 2 2 2 2 3 4
	4 3 2 1 1 1 2 3 4
	4 3 2 1 0 1 2 3 4
	4 3 2 1 1 1 2 3 4
	4 3 2 2 2 2 3 4
	4 3 3 3 3 3 3 4
	4 4 4 4 4 4 4 4 4

	Input	Output
1		1 1 1
		1 0 1
		1 1 1