



## Printing Pattern Using Loops ★

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Problem

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## RATE THIS CHALLENGE

Print a pattern of numbers from **1** to ***n*** as shown below. Each of the numbers is separated by a single space.

```
4 4 4 4 4 4 4
4 3 3 3 3 3 4
4 3 2 2 2 3 4
4 3 2 1 2 3 4
4 3 2 2 2 3 4
4 3 3 3 3 3 4
4 4 4 4 4 4 4
```

## Input Format

The input will contain a single integer ***n***.

## Constraints

 $1 \leq n \leq 1000$ 

## Sample Input 0

2

## Sample Output 0

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

## Sample Input 1

5

## Sample Output 1

```
5 5 5 5 5 5 5 5
5 4 4 4 4 4 4 5
5 4 3 3 3 3 4 5
5 4 3 2 2 2 3 4 5
5 4 3 2 1 2 3 4 5
5 4 3 2 2 2 3 4 5
5 4 3 3 3 3 3 4 5
5 4 4 4 4 4 4 5
5 5 5 5 5 5 5 5
```

## Sample Input 2

7

## Sample Output 2

```
7777777777777
7666666666667
7655555555567
76544444444567
76543333334567
7654322234567
7654321234567
7654322234567
7654333334567
7654444444567
765555555567
766666666667
7777777777777
```

Change Theme Language: C



```
1  #include <stdio.h>
2
3  int main()
4  {
5      int n;
6      scanf("%d", &n);
7
8      int f = (n * 2) - 1;
9      int num;
10
11
12     for (int i = 1; i <= f; i++)
13     {
14
15         for (int j = 1; j <= f; j++)
16         {
17
18             if (i <= j && i <= f - j + 1 && i <= f - i + 1) {
19                 num = n - i + 1;
20             }
21             else if (j <= i && j <= f - j + 1 && j <= f - i + 1) {
22                 num = n - j + 1;
23             }
24             else if (f - i + 1 <= j && f - i + 1 <= f - j + 1) {
25                 num = n - (f - i);
26             }
27             else {
```

Line: 41 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

## Congratulations

You solved this challenge. Would you like to challenge your friends?


Next Challenge

Test case 0


Test case 1


Compiler Message

Success

✔ Test case 2 

✔ Test case 3

✔ Test case 4 

✔ Test case 5 

✔ Test case 6 

Input (stdin)

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1	2
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Expected Output

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1	2 2 2
2	2 1 2
3	2 2 2