



Printing Pattern Using Loops ★

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Problem

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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 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 4 5
5 5 5 5 5 5 5 5
```



Sample Input 2

7

Sample Output 2

```

7 7 7 7 7 7 7 7 7 7 7 7 7
7 6 6 6 6 6 6 6 6 6 6 7
7 6 5 5 5 5 5 5 5 5 6 7
7 6 5 4 4 4 4 4 4 5 6 7
7 6 5 4 3 3 3 3 4 5 6 7
7 6 5 4 3 2 2 2 3 4 5 6 7
7 6 5 4 3 2 1 2 3 4 5 6 7
7 6 5 4 3 2 2 2 3 4 5 6 7
7 6 5 4 3 3 3 3 3 4 5 6 7
7 6 5 4 4 4 4 4 4 5 6 7
7 6 5 5 5 5 5 5 5 5 6 7
7 6 6 6 6 6 6 6 6 6 7
7 7 7 7 7 7 7 7 7 7 7

```

Change Theme Language: C



```

1  #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  int  smallof(int a,int b)
5  {
6      return a>b ? b:a ;
7  }
8  int main ()
9  {
10     int n;
11     scanf("%d",&n);
12     for (int i = 0; i < n; i++)
13     {
14         for (int j = 0; j < n; j++) printf("%d ",n-smallof(i,j));
15         for (int j = n-2; j>=0; j--) printf("%d ",n-smallof(i,j));
16         printf("\n");
17     }
18     for (int i = n-2; i >= 0; i--)
19     {
20         for (int j = 0; j < n; j++) printf("%d ",n-smallof(i,j));
21         for (int j = n-2; j>=0; j--) printf("%d ",n-smallof(i,j));
22         printf("\n");
23     }
24 }
25 return 0;
26 }
27

```

Line: 27 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
- ✓ Test case 2
- ✓ Test case 3
- ✓ Test case 4
- ✓ Test case 5
- ✓ Test case 6

Compiler Message

Success

Input (stdin)

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1	2
---	---

Expected Output

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

