



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
5 4 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 5

```

Sample Input 2

```
7
```

Sample Output 2

```

7 7 7 7 7 7 7 7 7 7 7
7 6 6 6 6 6 6 6 6 6 7
7 6 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 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 6 7
7 6 6 6 6 6 6 6 6 6 7
7 7 7 7 7 7 7 7 7 7 7

```

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```

1
8
9      int n,i,j;
10     scanf("%d", &n);
11     // Complete the code to print the pattern.
12     for(i=1;i<=n;i++)
13     {
14         for(j=n;j>=n-i+1;j--)
15         {
16             printf("%d ",j);
17         }
18
19         for(j=1;j<=2*(n-i);j++)
20         {
21             printf("%d ",n-i+1);
22         }
23         for(j=n-i+2;j<=n;j++)
24         {
25             printf("%d ",j);
26         }
27
28         printf("\n");
29     }

```



Line: 19 Col: 26

 Upload Code as File

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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)

1 2

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Expected Output

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

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