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Print a pattern of numbers from ${\bf 1}$ to ${\bf n}$ 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

 $1 \le n \le 1000$

Sample Input 0

2

Sample Output 0

2 2 2

2 1 2

2 2 2

Sample Input 1

5

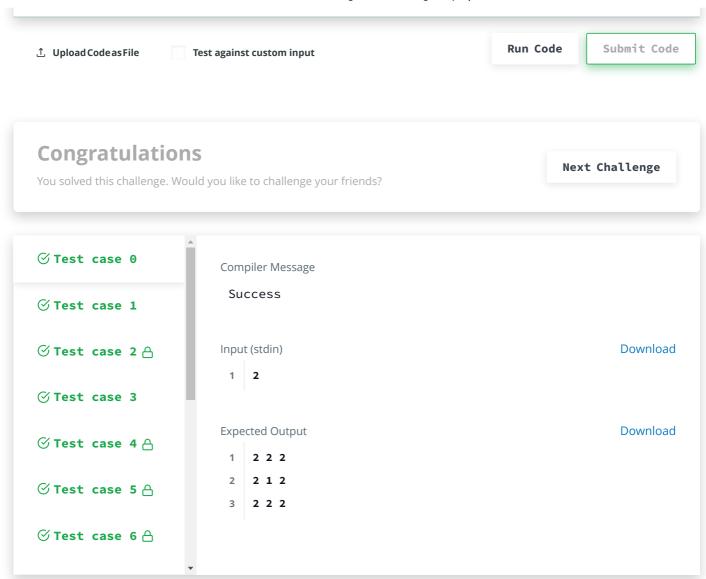
Sample Output 1



```
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 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 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 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 6 7
  7 7 7 7 7 7 7 7 7 7 7 7 7 7
```

```
K Z
                                         Change Theme Language: C
                                                                                   (0)
                                                                                                  :
 8
         int n,i,j;
 9
         scanf("%d", &n);
10
         // Complete the code to print the pattern.
11
12
            for(i=1;i<=n;i++)
13
14
                for(j=n;j>=n-i+1;j--)
15
                {
                    printf("%d ",j);
16
17
                }
18
19
                for(j=1;j<=2*(n-i);j++)
20
                    printf("%d ",n-i+1);
21
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



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