

2RETO 11 MARATON

To perform work required to implement a program to build a square matrix of size $N \times N$ (N odd). The user enters the value of N .

This matrix should be filled with the numbers 10, 11, 12, 13 and so on, starting from the central cell and following the path shown in the figure below.

→	→	→	→	→
↑	→	→	→	↓
↑	↑	→	↓	↓
↑	↑	←	←	↓
↑	←	←	←	←

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Input

Enter an odd integer.

Output

Matrix with numbers starting in 10, starting from the central cell by following the path defined

Example

Input:

3

Output:

```
16 17 18
15 10 11
14 13 12
```

Input:

7

Output:

```
52 53 54 55 56 57 58
51 30 31 32 33 34 35
50 29 16 17 18 19 36
49 28 15 10 11 20 37
48 27 14 13 12 21 38
47 26 25 24 23 22 39
46 45 44 43 42 41 40
```