JAVA programmers: your program name must be: prob08.class
C programmers: your program name must be: prob08.exe

Task Description

Write a program to create a number spiral of size n (n rows by n columns), where n is any odd number between 1 and 19. The spiral starts in the middle with number zero, moves outward to the right and spirals counter-clockwise.

Program Input

Prompt for the size of the number spiral. If the number is outside of the range of 1-19, or is not an odd number, your program should output an error message and exit.

Program Output

The program must output to the screen the number spiral, with the numbers aligned vertically with the least significant digits. Ensure that your largest spiral will still fit without the text wrapping on an 80 column screen.

Sample Input/Output

```
Enter the size of the number spiral: 3

    4    3    2
    5    0    1
    6    7    8

Enter the size of the number spiral: 5

   16   15   14   13   12
   17    4    3    2   11
   18    5    0    1   10
   19    6    7    8    9
   20   21   22   23   24

Enter the size of the number spiral: 7

   36   35   34   33   32   31   30
   37   16   15   14   13   12   29
   38   17    4    3    2   11   28
   39   18    5    0    1   10   27
   40   19    6    7    8    9   26
   41   20   21   22   23   24   25
   42   43   44   45   46   47   48
```