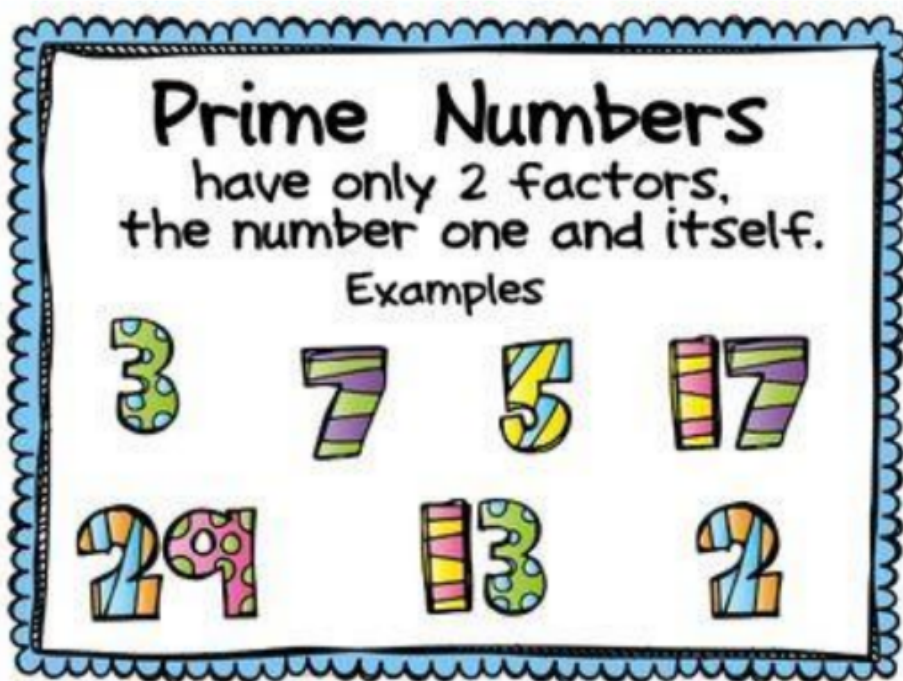


Task 3

Problem 1:

Write Program that checks if an input number is prime or not.



Problem 2:

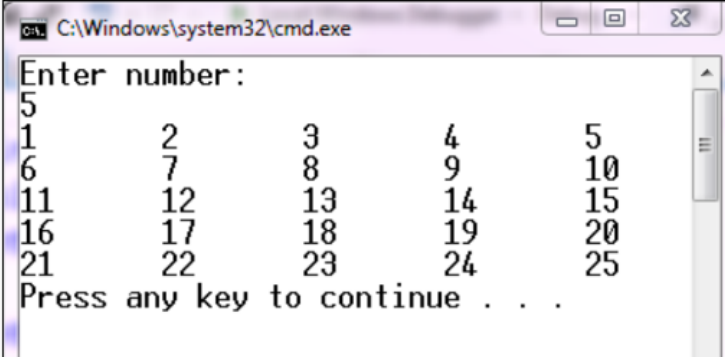
Write a program display the shape.

```
1
21
321
4321
54321
654321
7654321
87654321
```

Problem 3:

Write a program that asks the user to enter a number N and then prints on the screen the numbers 1 through N^2 arranged in a $N \times N$ grid.

An example is shown below, where the user entered 5.



```
C:\Windows\system32\cmd.exe
Enter number:
5
1      2      3      4      5
6      7      8      9      10
11     12     13     14     15
16     17     18     19     20
21     22     23     24     25
Press any key to continue . . .
```

The screenshot shows a Windows command prompt window with the title bar 'C:\Windows\system32\cmd.exe'. The prompt 'Enter number:' is followed by the user input '5'. Below this, a 5x5 grid of numbers is displayed, starting from 1 in the top-left corner and ending at 25 in the bottom-right corner. The numbers are arranged in rows of five. At the bottom of the window, the text 'Press any key to continue . . .' is visible.