

Don't try to copy or follow internet. Just do it yourself if you are a true learner.

1. Write a C program to input a number from user and count number of digits in the given integer using loop. How to find total digits in a given integer using loop in C programming.

Example

Input

Input num: 35419

Output

Number of digits: 5

2. Write a C program to input a number from user and find first and last digit of number using loop. How to find first and last digit of a number in C programming.

Example

Input

Input number: 1234

Output

First digit: 1

Last digit: 4

3. Write a C program to print hollow inverted right triangle star pattern of n rows using for loop. How to print hollow inverted right triangle star pattern series of n rows in C program.

Example

Input

Input rows: 5

Output

```
*****  
*  *  
*  *  
*  *  
*  *  
*  *  
*
```

4. Write a C program to check whether number is POSITIVE, NEGATIVE or ZERO until user doesn't want to exit.

Example:

Enter an integer number :0
Number is ZERO.

Want to check again (press Y/y for 'yes') :Y
Enter an integer number :1234
Number is POSITIVE.

Want to check again (press Y/y for 'yes') :Y
Enter an integer number :-345
Number is NEGATIVE.

Want to check again (press Y/y for 'yes') :y
Enter an integer number :45

Number is POSITIVE.

Want to check again (press Y/y for 'yes') :N

Bye Bye!!!

6. Compute " $2^0 + 2^1 + 2^2 + \dots + 2^{14}$ " using loop.

use, $\text{pow}(a,b)$ means a^b and add `#include<stdio.h>` to header file for Q.6.