1. Given a number ‘n’ and a position ‘p’, write an algorithm and the subsequent ‘C’ program to check if the ‘p-th’ digit from the leftmost position of ‘n’ is odd or even. For example, if ‘n’ is 3145782 and p is 4 then you have to check if 5 is odd or even. Since it is odd print ‘Odd’. Make yourcode accept numbers of larger size.

Input Format:

The first line contains the number, n

The second line contains the position, p

Output Format:

Print either “Odd” or “Even”

1. A computer scientist working in image processing is working on discrete Fourier transform. He needs an implementation of complex number to use in his program. Develop an algorithm and write a C program to implement addition, subtraction and multiplication in complex numbers. Implement each operation as a function and call it in your main. The function call sequence is addition, subtraction and multiplication. For example when the complex numbers are 3+2i, 1+7i the output should be

4+9i , 2-5i , -11+23i

Input Format

Real part of complex number1

Imaginary part of complex number1

Real part of complex number2

Imaginary part of complex number2

Output Format

Resultant complex number represented as

real part +/- imaginary part followed by an 'i'