

Number Representation

Create a program that prompts the user for two integer numbers.

Read the string of numerals (positive or negative) from the keyboard.

Convert the numerals to a signed binary integer, then store as a 64-bit variable in memory.

Write the number in the following forms to the terminal:

Decimal
Hexadecimal
Binary

Then write the OR and AND and XOR of the two number combinations.

Example:

Input: Please enter the first number: 255

Please enter the second number: 15

Output:

Decimal:

+255

Hexadecimal:

00000000000000FF

Binary :

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 1111 1111

Decimal:

+15

Hexadecimal:

000000000000000F

Binary :

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 1111

OR :

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 1111 1111

AND :

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 1111

XOR :

0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 1111 0000

Loop back 4X to request additional sets of numbers. Demonstrate positive and negative inputs.