

CSE 114
Fundamentals of Computer Programming
Assignment 5

In this assignment, you will implement two different programs.

- 1) You need to implement a program that gets a number from the user and mirrors the last 8 bits of it to the first 8 bits. (50 points)

The number will not be greater than 255. You must inform user about that in your program.

Example:

Enter number : 172

Number binary : 0000 0000 1010 1100

Mirrored binary: 0011 0101 1010 1100

New number : 13740

- 2) You need to implement a program that gets an 8bit number from the user and add the parity number based on the number of 1's in the binary form of the number given. (50 points)

The number will not be greater than 255. You must inform user about that in your program.

If the number of 1's is odd the parity bit will be 0 otherwise the parity bit will be 1.

Example:

Enter number : 172

Number binary : 0000 0000 1010 1100

Parity : 0000 0001 1010 1100

print_binary(): This function will print the binary form of a number.

In order to get a grade from any of these programs you must write the ***print_binary()*** function and use it to show your result.

Use short int for both programs.

You will be graded based on the readability of your code.

Use comments where necessary to explain your code.