

Number Representation and C Programming Practice

Task 1

For each of the following positive binary numbers and what is the decimal (Base-10) equivalent?

1.a 001

1.b 1001

1.c 1011001

Task 2

For each of these operations, please your answer in Base-2 and Base-10

1.a $001010_2 + 001011_2 =$

1.b $24_{10} + 46_{10} =$

1.c $010110_2 - 010101_2 =$

1.d $40_{10} - 18_{10} =$

Task 3

(Almost) Universal Base Convertor

Write a C program that:

1. Takes a binary number from the user and convert the number into decimal.
2. Converts a decimal number taken from the user into a binary number.