

Write a C program to input any number and check whether the given number is even or odd using bitwise operator. How to check whether a number is even or odd using bitwise operator in C programming. Logic to check even odd using bitwise operator in C programming.

**Example**

**Input**

Input number: 12

**Output**

12 is even

Ans:

/\*\*

\* C program to check even or odd number using bitwise operator

\*/

#include <stdio.h>

int main()

{

int num;

/\* Input number from user \*/

printf("Enter any number: ");

scanf("%d", &num);

if(num & 1)

{

printf("%d is odd.", num);

}

else

{

printf("%d is even.", num);

}

return 0;

}

**The statement if(num & 1) is equivalent to if((num & 1) == 1).**

**Program to check even or odd using conditional and bitwise operator**

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\* C program to check whether a number is even or odd using bitwise operator

\*/

#include <stdio.h>

int main()

{

int num;

/\* Input number from user \*/

printf("Enter any number: ");

scanf("%d", &num);

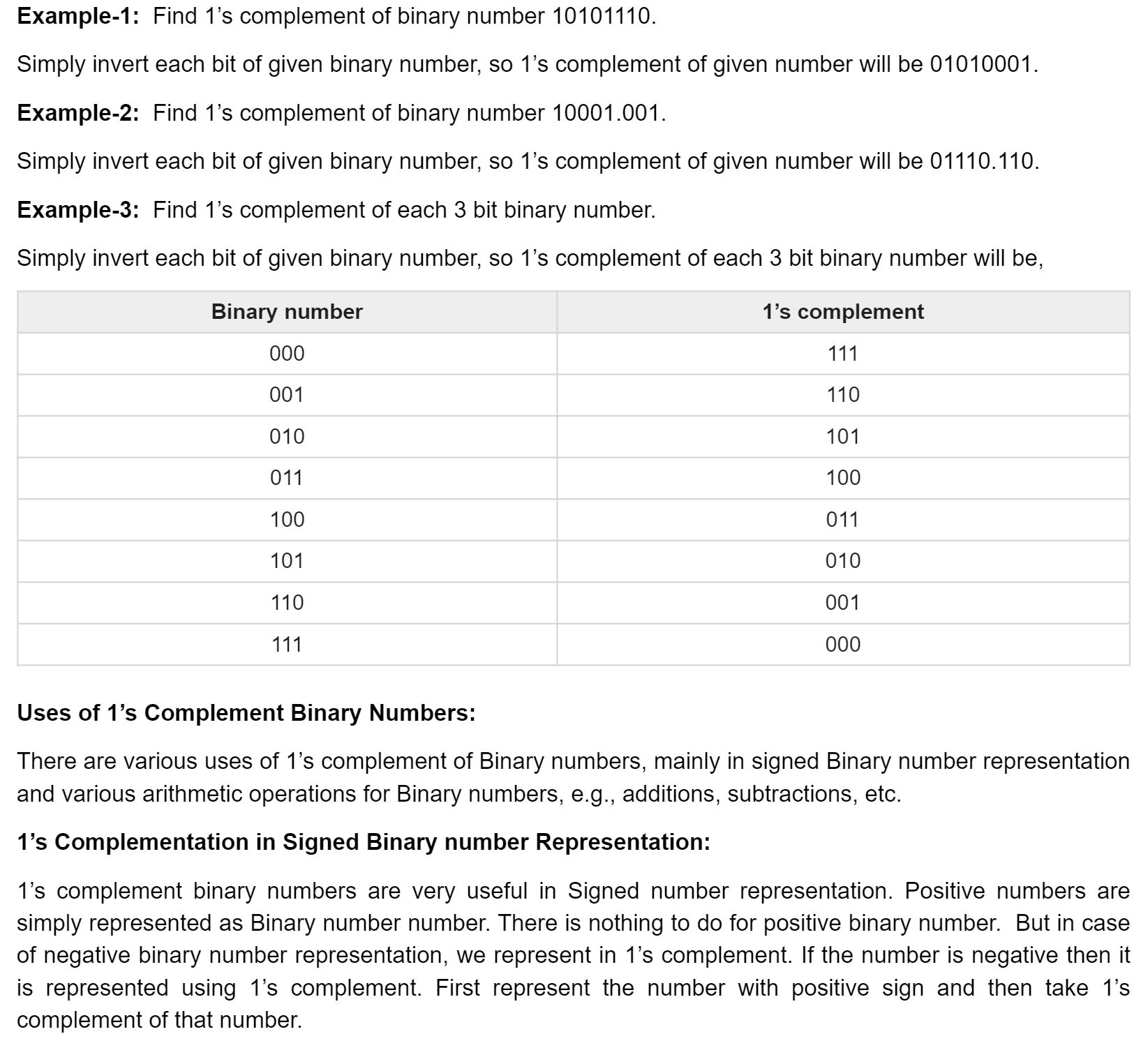
(num & 1)

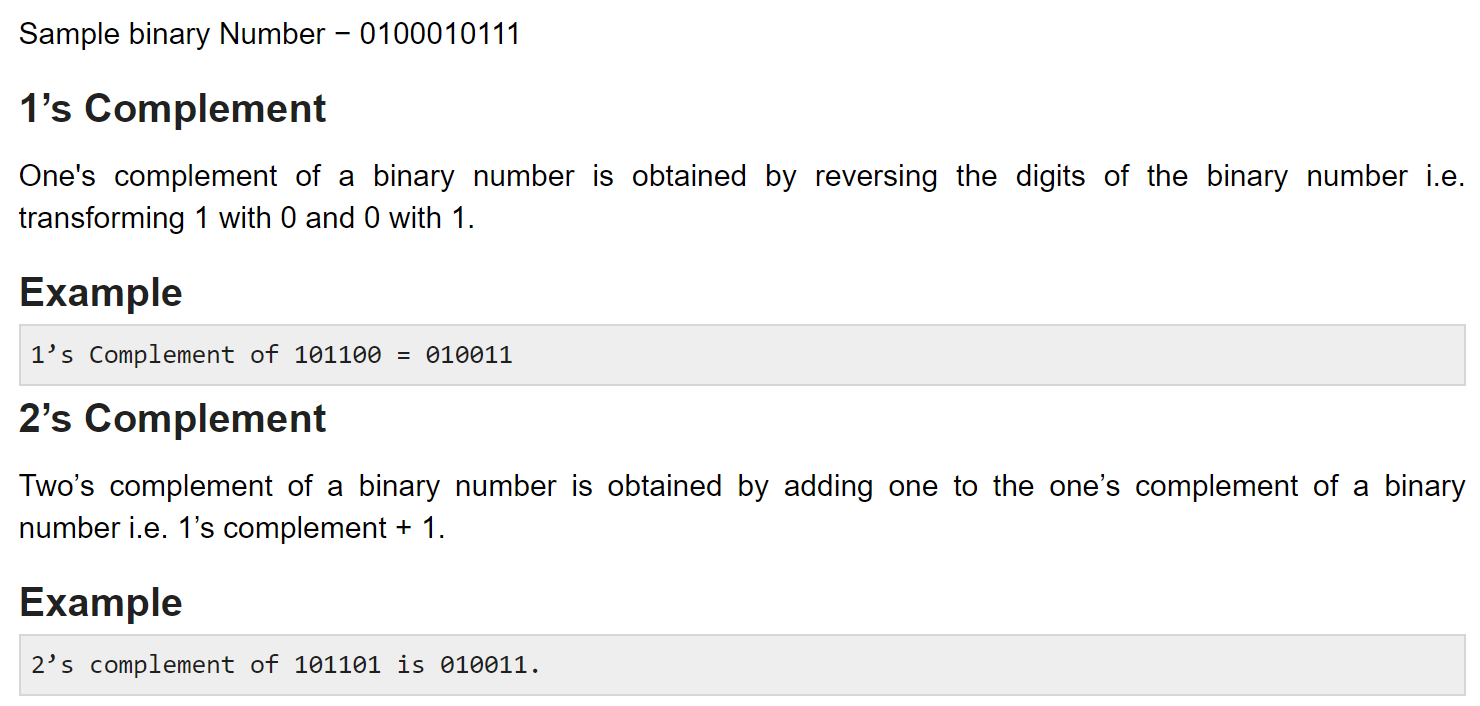
? printf("%d is odd.", num)

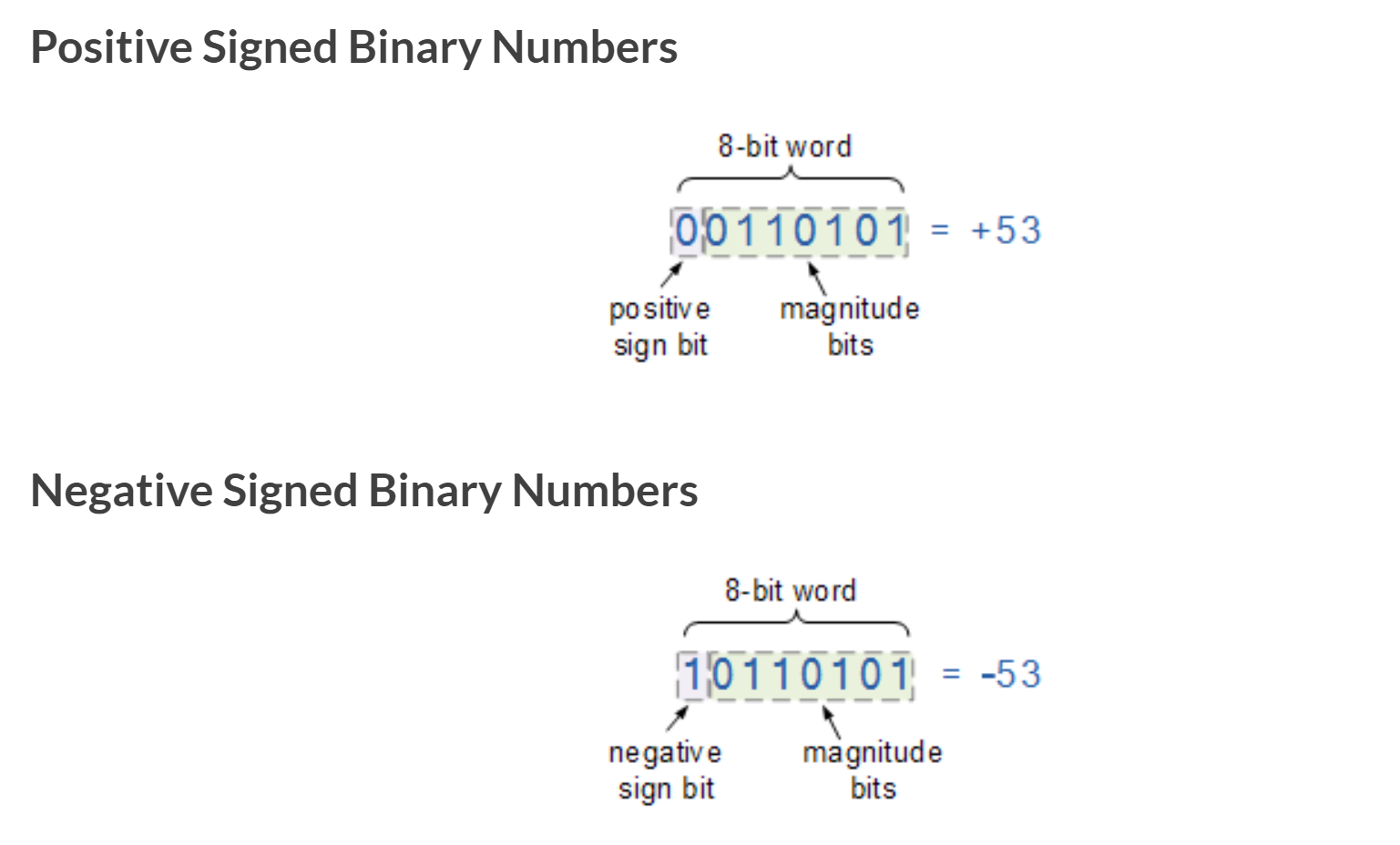
: printf("%d is even.", num);

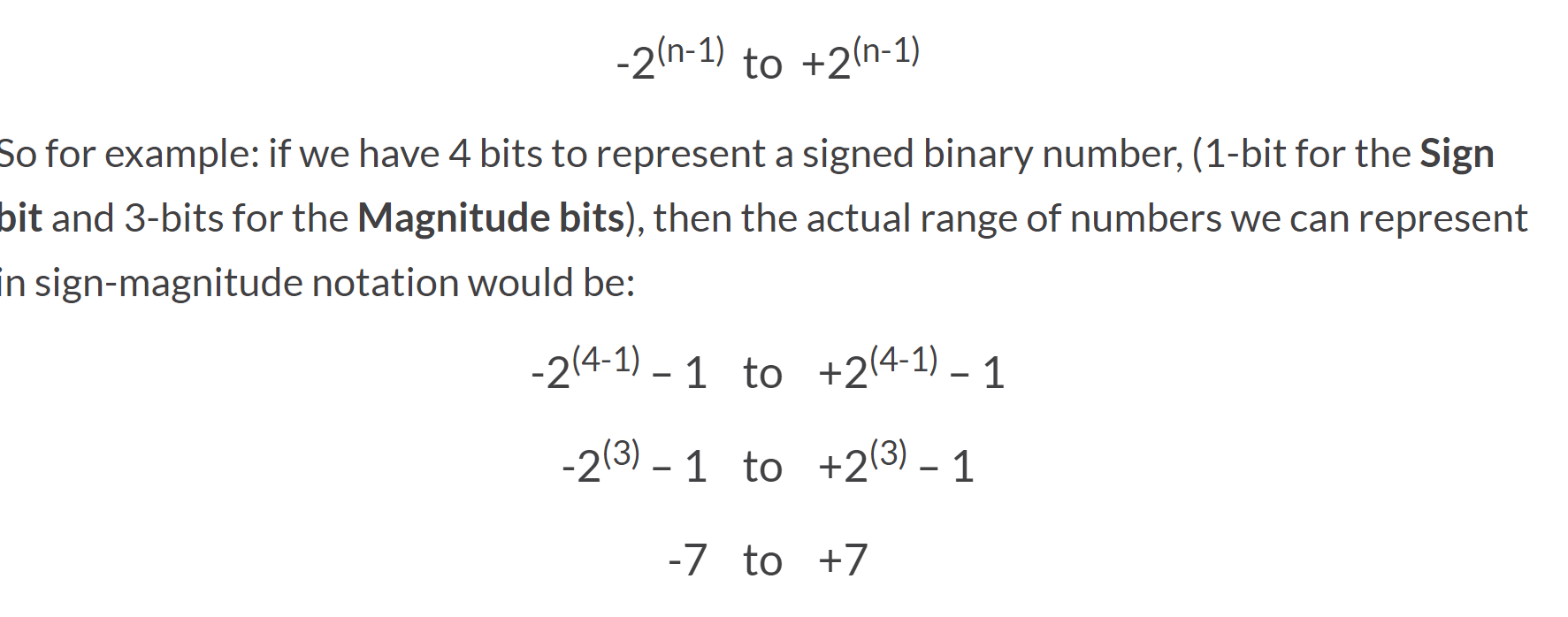
return 0;

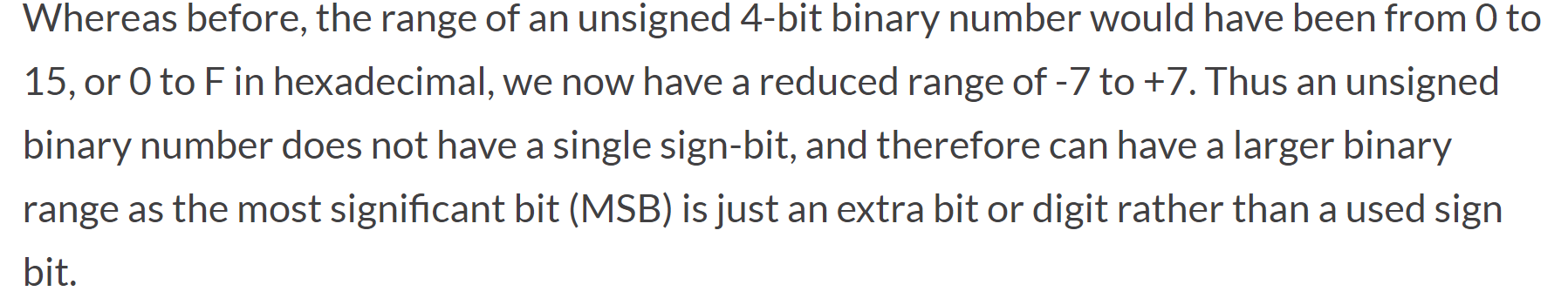
}

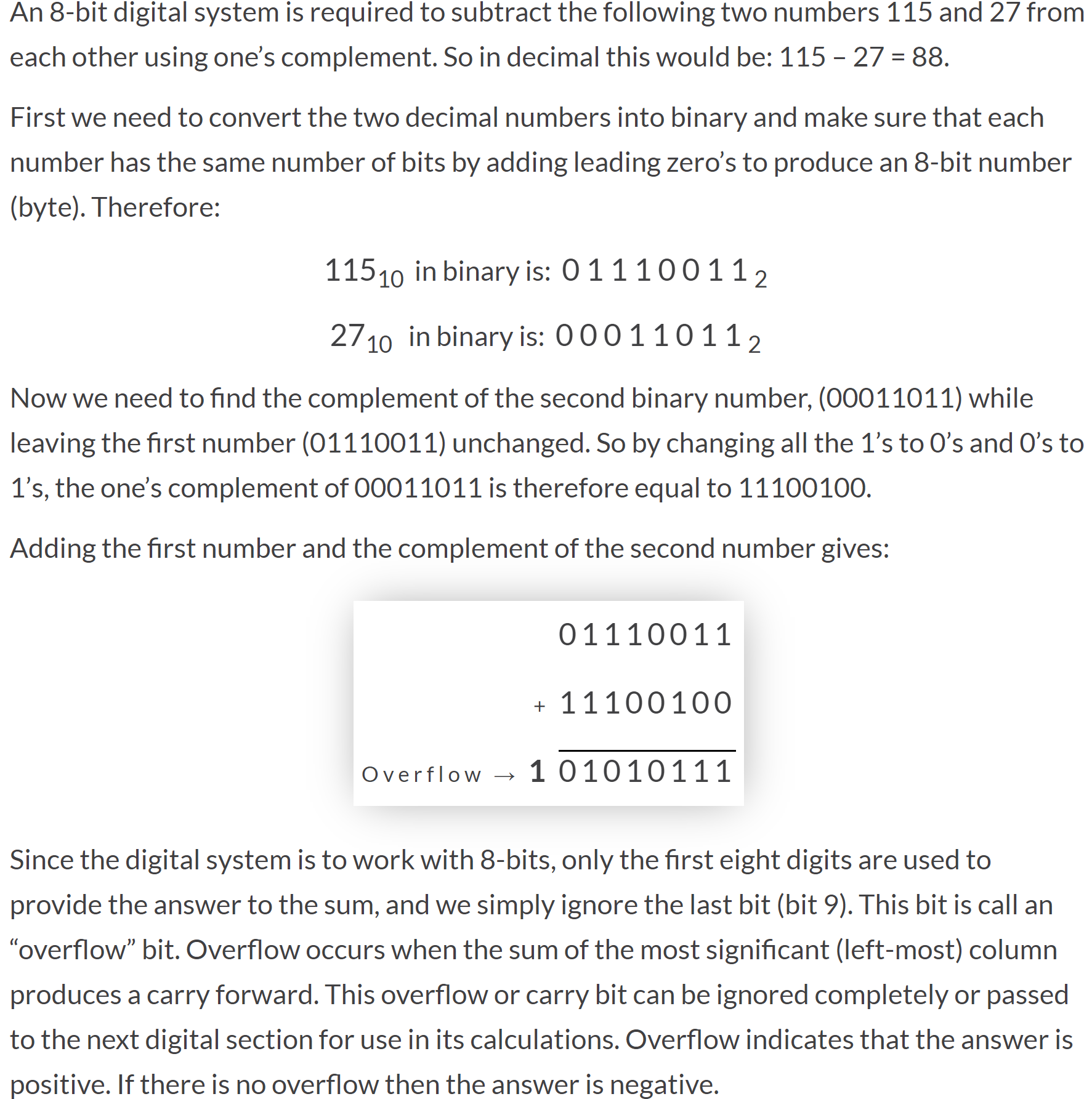


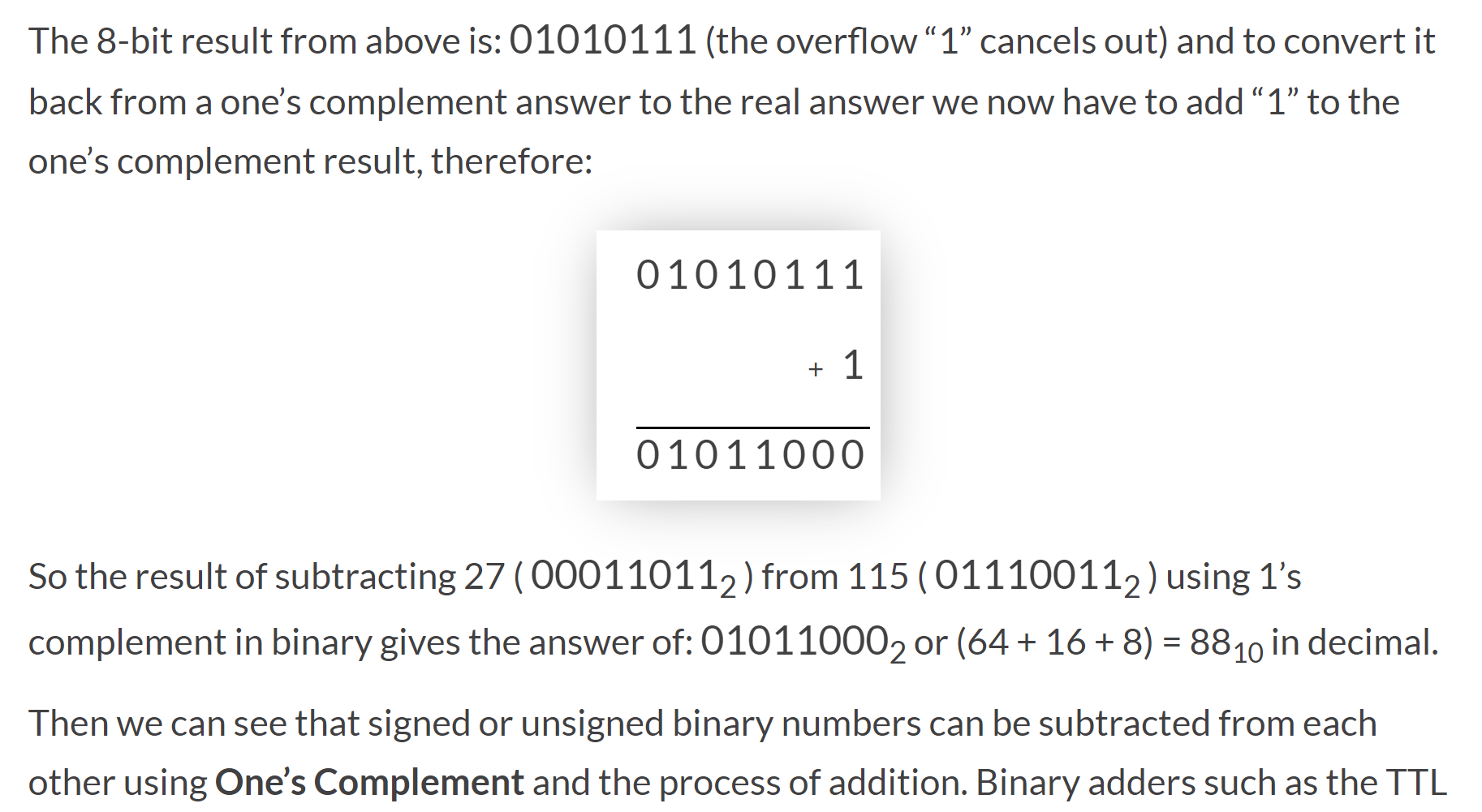












**2’s Complement**

A – B = A + ( 2’s complement of B )

**two’s complement is one’s complement + 1.**