

(10%) Hamming Distance (a)

Description

Given two bit sequences of equal length, their Hamming distance is the number of positions at which the corresponding bits are different. For example, the Hamming distance between bit sequences 00100100 and 10011001 is 6.

(a) Write a program that accepts an integer (stored as a 32-bit signed integer) and outputs its bit sequence (32 bits). For example, an input of 17 to the program results in 000000000000000000000000000010001 as the output.

Input

A 32-bit signed integer.

Output

A 32-bit sequence of 0 & 1.

Sample Input 1

17

Sample Output 1

000000000000000000000000000010001

Language: C++

Theme: Solarized Light

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✓ You have solved the problem

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