**1. Go: Count Bits**

Implement a function that counts the number of set bits in the binary representation of a 32-bit integer.

**Example**

*num = 126*

*126 = 11111102* has 6 bits set

*num =128*

*128 = 100000002* has 1 bit set.

**Function Description**

Complete the function *countBits* in the editor below.

countBits has the following parameter:

*uint32 num:*  an integer value

Returns:

*int32:* the number of bits set in *num*

**Constraints**

* *0 ≤ num ≤ 232 - 1*

Input Format For Custom Testing

The only line contains a uint32, *num*.

Sample Case 0

**Sample Input For Custom Testing**

127

**Sample Output**

7

**Explanation**

127 is 01111111 in binary form and contains 7 set bits.

Sample Case 1

**Sample Input For Custom Testing**

10

**Sample Output**

2

**Explanation**

10 is 00001010 in binary form and contains 2 set bits.