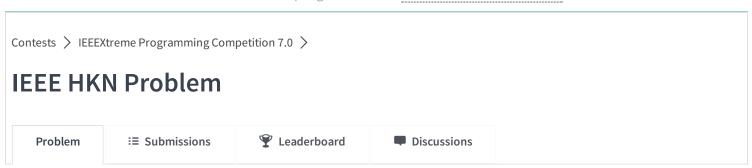


The contest is in progress. It ends about 16 hours from now.



Members of IEEE HKN wanted to challenge the world, they released on their facebook page the following problem:

Write a program to determine the number of binary palindromes in a given range [a;b]. A binary palindrome is a number whose binary representation is reading the same in either forward or reverse direction (leading zeros not accounted for). Example: the decimal number 5 (binary 101) is palindromic.

Caution: the execution time is limited to 3 seconds.

Input:

HackerRank

The lower and upper bound of the range as positive 32-bit decimal integer numbers, separated by a comma: "a,b"; 0<=a; a<=b; b<=2^32-1

Output:

Decimal integer, the number of binary palindromes in the given range (including the bounds)

Sample Input 1:

9,18

Sample output 1:

hint:

```
Bin Palindromic
Dec
     1001
              Х
     1010
10
     1011
11
     1100
12
13
     1101
14
     1110
     1111
15
    10000
16
17
    10001
              Χ
    10010
```

Problem Author: IEEE

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Compile & Test

