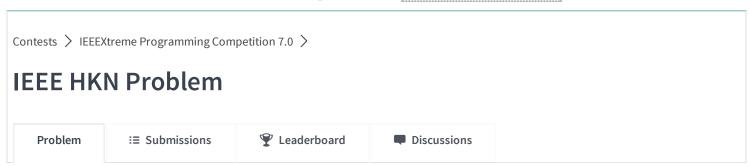


**CHALLENGES** 

SUBMISSIONS LEADERBOARD



The contest is in progress. It ends about 17 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:

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:

3

#### hint:

```
Bin Palindromic
Dec
     1001
9
10
     1010
11
    1011
12
    1100
13
    1101
     1110
15
    1111
   10000
16
   10001
   10010
```

**Problem Author: IEEE** 

**Suggest Edits** 



Use a custom test case

Upload Code as File

Compile & Test | Submit Code

This is a beta version. Join us on IRC at #hackerrank on freenode for hugs or bugs.

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