IEEE HKN Problem

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:

```
Dec  Bin  Palindromic
 9   1001     x
10   1010
11   1011
12   1100
13   1101
14   1110
15   1111     x
16  10000
17  10001     x
18  10010
```

Problem Author: IEEE

Suggest Edits

Emacs | Normal | Vim

Select Language: C++

save code

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1 Count: 227

Use a custom test case

Upload Code as File

Compile & Test | Submit Code