HackerRank

CHALLENGES   SUBMISSIONS   LEADERBOARD   BIGOHOFTSS ∨

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

Contests ❭ IEEEXtreme Programming Competition 7.0 ❭

IEEE HKN Problem

Problem	≡ Submissions	🏆 Leaderboard	💬 Discussions

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

Emacs | Normal | Vim

Select Language: C++

save code

```cpp
1  #include <cmath>
2  #include <cstdio>
3  #include <vector>
4  #include <iostream>
5  #include <algorithm>
6  using namespace std;
7
8
9  int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1 Count: 227

☐ **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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