HackerRank

CHALLENGES   SUBMISSIONS   LEADERBOARD   PARANOIDERASSELBANDE1 ⌄ ◂ 1

The contest is in progress. It ends about 3 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:
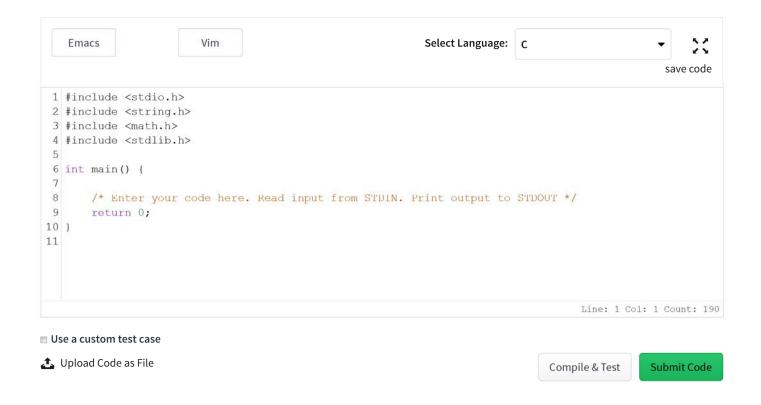
```
9,18
```

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

Suggest Edits

Emacs   Vim   Select Language: C

save code

```
 1 #include <stdio.h>
 2 #include <string.h>
 3 #include <math.h>
 4 #include <stdlib.h>
 5
 6 int main() {
 7
 8      /* Enter your code here. Read input from STDIN. Print output to STDOUT */
 9      return 0;
10 }
11
```

Line: 1 Col: 1 Count: 190

☐ **Use a custom test case**

⬆ Upload Code as File

Compile & Test   Submit Code