The TCS Global Coding Contest

Gowtham G

05 Hr 33 Min 36 Sec

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Count Palindromes

Problem Description

A contest closes in n days hh hours, mm minutes and ss seconds. Given two values of n, how many palindromes of the format nhhmmss would we find in the indicated interval?

A string is said to be palindrome if it reads the same backwards as forwards.

Constraints

n2 - n1 <= 10

Input

One line containing two integer n1 and n2, where n1<n2

Output

One integer representing the number of palindromes in this countdown interval

Time Limit

3

Examples

Example 1

Input

1 2

Output

472

Explanation

We need to check the numbers 1000000 through 2235959 including only numbers where the last 6 digits correspond to times. We find 472 such numbers: 1000001, 1001001, 1002001, 1003001, 1004001, ..., 2231322, 2232322, 2233322, 2234322, 2235322

Example 2

Input

0 2

Output

708

Explanation

There are 708 palindromes: 0000000, 0001000, 0002000, 0003000, 0004000, ..., 2231322, 2232322, 2233322, 2234322, 2235322

Upload Solution [Question : B]

☐ I, **gowtham g** confirm that the answer submitted is my own.

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