

PALINDROMIC RANGES

CHALLENGE DESCRIPTION:

A positive integer is a palindrome if its decimal representation (without leading zeros) is a palindromic string (a string that reads the same forwards and backwards). For example, the numbers 5, 77, 363, 4884, 11111, 12121 and 349943 are palindromes.

A range of integers is interesting if it contains an even number of palindromes. The range [L, R], with $L \leq R$, is defined as the sequence of integers from L to R (inclusive): (L, L+1, L+2, ..., R-1, R). L and R are the range's first and last numbers.

The range [L1,R1] is a subrange of [L,R] if $L \leq L1 \leq R1 \leq R$. Your job is to determine how many interesting subranges of [L,R] there are.

INPUT SAMPLE:

Your program should accept as its first argument a path to a filename. Each line in this file is one test case. Each test case will contain two positive integers, L and R (in that order), separated by a space. eg.

```
1 2
1 7
87 88
```

OUTPUT SAMPLE:

For each line of input, print out the number of interesting subranges of [L,R] eg.

```
1
12
1
```

For the curious: In the third example, the subranges are: [87](0 palindromes), [87,88](1 palindrome),[88](1 palindrome). Hence the number of interesting palindromic ranges is 1