

DWITE '06 R5 #5 - Prime Palindromes

Time limit: 0.6s **Memory limit:** 16M

DWITE Online Computer Programming Contest, February 2006, Problem 5

The number 181 is a prime palindrome because it is both a prime number and a palindrome. A palindrome is a number that is the same when read forward as backward. Write a program that determines how many prime palindromes there are between two numbers.

The input will contain five sets of data. Each set will contain two integers, L and U , the range of numbers to determine the prime palindromes. $2 \leq L \leq U \leq 999\,999$.

The output will contain the number of prime palindromes between L and U , inclusive.

Sample Input (3 sets of data only)

```
2 10
100 200
10000 20000
```

Sample Output

```
4
5
26
```