







Rank









All Contests > Week of Code 29 > Megaprime Numbers

# Megaprime Numbers



Problem

Submissions

Leaderboard

Discussions

Your submission will run against only preliminary test cases. Full test cases will run at the end of the day.

A prime number is an integer greater than 1 that has no positive divisors other than 1 and itself.

We call a number *megaprime* if it is prime and all of its individual digits are prime. For example, **53** is megaprime because it is prime and all its digits (**5** and **3**) are prime; however, **35** is not megaprime because it is not prime (it's divisible by **5** and **7**), and **13** is not megaprime because it has a non-prime digit (**1** is not prime).

Given two long integers, first and last, find and print the total number of megaprime numbers in the inclusive range between first and last.

#### **Input Format**

Two space-separated long integers describing the respective values of *first* and *last*.

#### **Constraints**

- $1 \le first \le last \le 10^{15}$
- $last first \leq 10^9$

#### **Output Format**

Print a long integer denoting the total number of megaprimes in the inclusive interval between *first* and *last*.

### Sample Input 0

1 100

## Sample Output 0

8

#### **Explanation 0**

There are eight megaprime numbers in the inclusive range from first = 1 to last = 100 (i.e., 2, 3, 5, 7, 23, 37, 53, and 73), so we print 8 as our answer.

f ¥ in

Contest ends in 3 days

Submissions: 2127 Max Score: 50 Difficulty: Medium

Rate This Challenge: ななななな

More

Current Buffer (saved locally, editable)	BASH	× × ×	<b>\$</b>
1			
↑ Upload Code as File Test against custom input			
<u>Upload Code as File</u> Test against custom input	Run Code	Submit (	Code

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature