
5. Emirp

Program Name: Emirp.java

Input File: emirp.dat

An *emirp* number is a prime number that forms a different prime number when reversed. Palindromic prime numbers are excluded. You will be given a range of numbers and you are required to list all the *emirps* in that range (inclusive).

Input

The input is two or more lines with two positive integers a and b , $a < b$, separated by a single space on each line.

Output

For each line of input, you will print, on a single line and separated by a single space, the list of emirps in the given range in ascending order. Print "NONE" if there are no *emirps* in the given range.

Example Input File

```
10 20
10 40
18 29
```

Example Output to Screen

```
13 17
13 17 31 37
NONE
```