# **Prime Intervals**

In this problem you have to print all primes from given interval.

## Input

*t* - the number of test cases, then *t* lines follows. [ $t \le 150$ ]

On each line are written two integers *L* and *U* separated by a blank. *L* - lower bound of interval, *U* - upper bound of interval. [2 <= L < U <= 2147483647] [*U*-*L* <= 1000000].

## Output

For each test case output must contain all primes from interval [L; U] in increasing order.

## Example

#### Input:

#### Output:

3

5

7