

# 2523. Closest Prime Numbers in Range

## Description

Given two positive integers `left` and `right`, find the two integers `num1` and `num2` such that:

- `left <= num1 < num2 <= right`.
- `num1` and `num2` are both **prime** numbers.
- `num2 - num1` is the **minimum** amongst all other pairs satisfying the above conditions.

Return *the positive integer array* `ans = [num1, num2]`. *If there are multiple pairs satisfying these conditions, return the one with the minimum `num1` value or `[-1, -1]` if such numbers do not exist.*

A number greater than `1` is called **prime** if it is only divisible by `1` and itself.

### Example 1:

**Input:** `left = 10, right = 19`

**Output:** `[11,13]`

**Explanation:** The prime numbers between 10 and 19 are 11, 13, 17, and 19.

The closest gap between any pair is 2, which can be achieved by `[11,13]` or `[17,19]`.

Since 11 is smaller than 17, we return the first pair.

### Example 2:

**Input:** `left = 4, right = 6`

**Output:** `[-1,-1]`

**Explanation:** There exists only one prime number in the given range, so the conditions cannot be satisfied.

### Constraints:

- `1 <= left <= right <= 106`

