

## 2523. Closest Prime Numbers in Range

Solved ●

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

- `left <= num1 < num2 <= right`.
- Both `num1` and `num2` are **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 **smallest** `num1` value. If no such numbers exist, return `[-1, -1]`.

### 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`

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Yes No

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