## **Find First and Last Position of Element in Sorted Array**

Given an array of integers nums sorted in non-decreasing order, find the starting and ending position of a given target value.

If target is not found in the array, return [-1, -1].

You must write an algorithm with O(log n) runtime complexity.

## Example 1:

**Input:** nums = [5,7,7,8,8,10], target = 8

**Output:** [3,4]

Example 2:

**Input:** nums = [5,7,7,8,8,10], target = 6

Output: [-1,-1]

Example 3:

Input: nums = [], target = 0

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

## **Constraints:**

- 0 <= nums.length <= 10<sup>5</sup>
- -10<sup>9</sup> <= nums[i] <= 10<sup>9</sup>
- nums is a non-decreasing array.
- $-10^9 \le target \le 10^9$