# 34. 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:**

 $0 <= \text{nums.length} <= 10^{5}$ 

 $-10^{9} \le nums[i] \le 10^{9}$ 

nums is a non-decreasing array.

 $-10^{9}$  <= target <=  $10^{9}$