

Problem 1848: Minimum Distance to the Target Element

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 54.23%

Paid Only: No

Tags: Array

Problem Description

Given an integer array `nums`` **(0-indexed)** and two integers `target`` and `start``, find an index `i`` such that `nums[i] == target`` and `abs(i - start)`` is **minimized**. Note that `abs(x)`` is the absolute value of `x``.

Return `abs(i - start)``.

It is **guaranteed** that `target`` exists in `nums``.

Example 1:

Input: `nums = [1,2,3,4,5]`, `target = 5`, `start = 3` **Output:** `1` **Explanation:** `nums[4] = 5` is the only value equal to `target`, so the answer is `abs(4 - 3) = 1`.

Example 2:

Input: `nums = [1]`, `target = 1`, `start = 0` **Output:** `0` **Explanation:** `nums[0] = 1` is the only value equal to `target`, so the answer is `abs(0 - 0) = 0`.

Example 3:

Input: `nums = [1,1,1,1,1,1,1,1,1]`, `target = 1`, `start = 0` **Output:** `0` **Explanation:** Every value of `nums` is 1, but `nums[0]` minimizes `abs(i - start)`, which is `abs(0 - 0) = 0`.

Constraints:

*`1` <= nums.length <= 1000` *`1` <= nums[i] <= 104` *`0` <= start < nums.length` *`target` is in `nums`.

Code Snippets

C++:

```
class Solution {  
public:  
    int getMinDistance(vector<int>& nums, int target, int start) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int getMinDistance(int[] nums, int target, int start) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def getMinDistance(self, nums: List[int], target: int, start: int) -> int:
```