### 1137 Height Checker (link)

# **Description**

A school is trying to take an annual photo of all the students. The students are asked to stand in a single file line in **non-decreasing order** by height. Let this ordering be represented by the integer array <code>expected</code> where <code>expected[i]</code> is the expected height of the <code>ith</code> student in line.

You are given an integer array heights representing the **current order** that the students are standing in. Each heights[i] is the height of the i<sup>th</sup> student in line (**0-indexed**).

Return the number of indices where heights[i] != expected[i].

### **Example 1:**

```
Input: heights = [1,1,4,2,1,3]
Output: 3
Explanation:
heights: [1,1,4,2,1,3]
expected: [1,1,1,2,3,4]
Indices 2, 4, and 5 do not match.
```

#### Example 2:

```
Input: heights = [5,1,2,3,4]
Output: 5
Explanation:
heights: [5,1,2,3,4]
expected: [1,2,3,4,5]
All indices do not match.
```

#### Example 3:

```
Input: heights = [1,2,3,4,5]
Output: 0
Explanation:
heights: [1,2,3,4,5]
expected: [1,2,3,4,5]
All indices match.
```

#### **Constraints:**

```
• 1 <= heights.length <= 100
```

• 1 <= heights[i] <= 100

(scroll down for solution)

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# **Solution**

Language: cpp

#### **Status: Accepted**

```
#include <vector>
#include <algorithm>
using namespace std;
class Solution {
public:
    int heightChecker(vector<int>& heights) {
        vector<int> expected = heights;
        sort(expected.begin(), expected.end()); // Ожидаемые значения - отсортированны
        int mismatch_count = 0;
        for (int i = 0; i < heights.size(); ++i) {</pre>
            if (heights[i] != expected[i]) {
                mismatch_count++;
            }
        }
        return mismatch_count;
    }
};
```

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