





5972. Count the Hidden Sequences

My Submissions (/contest/biweekly-contest-70/problems/count-the-hidden-sequences/submissions/)

Back to Contest (/contest/biweekly-contest-70/)

You are given a **0-indexed** array of n integers differences, which describes the differences between each pair of consecutive integers of a hidden sequence of length (n + 1). More formally, call the hidden sequence hidden, then we have that differences[i] = hidden[i + 1] - hidden[i].

You are further given two integers lower and upper that describe the inclusive range of values [lower, upper] that the hidden sequence can contain.

- For example, given differences = [1, -3, 4], lower = 1, upper = 6, the hidden sequence is a sequence of length 4 whose elements are in between 1 and 6 (inclusive).
 - o [3, 4, 1, 5] and [4, 5, 2, 6] are possible hidden sequences.
 - o [5, 6, 3, 7] is not possible since it contains an element greater than 6.
 - [1, 2, 3, 4] is not possible since the differences are not correct.

Return the number of possible hidden sequences there are. If there are no possible sequences, return 0.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: differences = [1,-3,4], lower = 1, upper = 6
Explanation: The possible hidden sequences are:
-[3, 4, 1, 5]
-[4, 5, 2, 6]
Thus, we return 2.
```

Example 2:

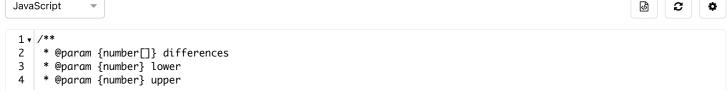
```
Input: differences = [3,-4,5,1,-2], lower = -4, upper = 5
Output: 4
Explanation: The possible hidden sequences are:
- [-3, 0, -4, 1, 2, 0]
- [-2, 1, -3, 2, 3, 1]
- [-1, 2, -2, 3, 4, 2]
-[0, 3, -1, 4, 5, 3]
Thus, we return 4.
```

Example 3:

```
Input: differences = [4,-7,2], lower = 3, upper = 6
Explanation: There are no possible hidden sequences. Thus, we return 0.
```

Constraints:

- n == differences.length
- $1 \le n \le 10^5$
- $-10^5 \le differences[i] \le 10^5$
- $-10^5 <= lower <= upper <= 10^5$



```
5
       * @return {number}
  6
  7 var numberOfArrays = function(differences, lower, upper) {
     };
  9
☐ Custom Testcase
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                                                                                                                         Run
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