## 1630. Arithmetic Subarrays

Solved

A sequence of numbers is called **arithmetic** if it consists of at least two elements, and the difference between every two consecutive elements is the same. More formally, a sequence s is arithmetic if and only if s[i+1] - s[i] = s[1] - s[0] for all valid i.

For example, these are **arithmetic** sequences:

The following sequence is not arithmetic:

You are given an array of n integers, nums, and two arrays of m integers each, I and r, representing the m range queries, where the i<sup>th</sup> query is the range [[i], r[i]]. All the arrays are **0-indexed**.

Return a list of boolean elements answer, where answer[i] is true if the subarray nums[l[i]], nums[l[i]]+1], ..., nums[r[i]] can be **rearranged** to form an **arithmetic** sequence, and false otherwise.

## Example 1:

**Input:** nums = [4,6,5,9,3,7], I = [0,0,2], r = [2,3,5]

Output: [true,false,true]

**Explanation:** 

In the 0<sup>th</sup> query, the subarray is [4,6,5]. This can be rearranged as [6,5,4], which is an arithmetic sequence.

In the 1st query, the subarray is [4,6,5,9]. This cannot be rearranged as an arithmetic sequence.

In the 2<sup>nd</sup> query, the subarray is [5,9,3,7]. This can be rearranged as [3,5,7,9], which is an arithmetic sequence.

## Example 2:

**Input:** nums = [-12,-9,-3,-12,-6,15,20,-25,-20,-15,-10], I = [0,1,6,4,8,7], r = [4,4,9,7,9,10]

Output: [false,true,false,false,true,true]

## **Constraints:**

- n == nums.length
- m == I.length
- m == r.length
- 2 <= n <= 500
- 1 <= m <= 500
- 0 <= I[i] < r[i] < n
- $-10^5 \le \text{nums[i]} \le 10^5$

Seen this question in a real interview before? 1/4

Yes No

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