

# Problem 795: Number of Subarrays with Bounded Maximum

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 54.45%

**Paid Only:** No

**Tags:** Array, Two Pointers

## Problem Description

Given an integer array `nums` and two integers `left` and `right`, return \_the number of contiguous non-empty\*\*subarrays\*\* such that the value of the maximum array element in that subarray is in the range \_`[left, right]`\_.

The test cases are generated so that the answer will fit in a \*\*32-bit\*\* integer.

**Example 1:**

**Input:** nums = [2,1,4,3], left = 2, right = 3 **Output:** 3 **Explanation:** There are three subarrays that meet the requirements: [2], [2, 1], [3].

**Example 2:**

**Input:** nums = [2,9,2,5,6], left = 2, right = 8 **Output:** 7

**Constraints:**

\* `1 <= nums.length <= 105` \* `0 <= nums[i] <= 109` \* `0 <= left <= right <= 109`

## Code Snippets

**C++:**

```
class Solution {  
public:  
    int numSubarrayBoundedMax(vector<int>& nums, int left, int right) {  
        }  
    };
```

**Java:**

```
class Solution {  
public int numSubarrayBoundedMax(int[] nums, int left, int right) {  
    }  
}
```

**Python3:**

```
class Solution:  
    def numSubarrayBoundedMax(self, nums: List[int], left: int, right: int) ->  
        int:
```