





5186. Range Frequency Queries

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Design a data structure to find the **frequency** of a given value in a given subarray.

The **frequency** of a value in a subarray is the number of occurrences of that value in the subarray.

Implement the RangeFreqQuery class:

- RangeFreqQuery(int[] arr) Constructs an instance of the class with the given 0-indexed integer array arr.
- int query(int left, int right, int value) Returns the frequency of value in the subarray arr[left...right].

A subarray is a contiguous sequence of elements within an array. arr[left...right] denotes the subarray that contains the elements of nums between indices left and right (inclusive).

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

Example 1:

```
Input
["RangeFreqQuery", "query", "query"]
[[[12, 33, 4, 56, 22, 2, 34, 33, 22, 12, 34, 56]], [1, 2, 4], [0, 11, 33]]
Output
[null, 1, 2]
Explanation
RangeFreqQuery rangeFreqQuery = new RangeFreqQuery([12, 33, 4, 56, 22, 2, 34, 33, 22, 12, 34, 56]);
rangeFreqQuery.query(1, 2, 4); // return 1. The value 4 occurs 1 time in the subarray [33, 4]
rangeFreqQuery.query(0, 11, 33); // return 2. The value 33 occurs 2 times in the whole array.
```

Constraints:

- 1 <= arr.length <= 10⁵
- 1 <= arr[i], value <= 10⁴
- 0 <= left <= right < arr.length
- At most 10⁵ calls will be made to query

```
JavaScript
                                                                                                                  {f c}
1 • /**
 2
     * @param {number[]} arr
 3
 4 var RangeFreqQuery = function(arr) {
 5
   };
 6
 7
8 🗸 /**
9
     * @param {number} left
     * @param {number} right
10
     * @param {number} value
11
     * @return {number}
12
13
14 ▼ RangeFreqQuery.prototype.query = function(left, right, value) {
15
16
   };
17
18 🔻 /**
     * Your RangeFreqQuery object will be instantiated and called as such:
19
20
     * var obj = new RangeFreqQuery(arr)
21
     * var param_1 = obj.query(left,right,value)
```