

i $\{\}$ \hookrightarrow \odot \square

Medium 449 21 Add to List Share

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

- `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]`.

Example 1:

```
[null, 1, 2]
```

```
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.
```

- $1 \leq \text{arr.length} \leq 10^5$
- $1 \leq \text{arr}[i], \text{value} \leq 10^4$
- $0 \leq \text{left} \leq \text{right} < \text{arr.length}$
- At most 10^5 calls will be made to `query`

Seen this question in a real interview before?

Show Hint 4

```

1  class RangeFreqQuery {
2
3      public RangeFreqQuery(int[] arr) {
4
5      }
6
7      public int query(int left, int right, int value) {
8
9      }
10 }
11
12 /**
13  * Your RangeFreqQuery object will be instantiated and called as such:
14  * RangeFreqQuery obj = new RangeFreqQuery(arr);
15  * int param_1 = obj.query(left,right,value);
16  */

```