1450. Number of Students Doing Homework at a Given Time

Description

Given two integer arrays `startTime` and `endTime` and given an integer `queryTime`.

The `ith` student started doing their homework at the time `startTime[i]` and finished it at time `endTime[i]`.

Return *the number of students* doing their homework at time `queryTime`. More formally, return the number of students where `queryTime` lays in the interval `[startTime[i], endTime[i]]` inclusive.

Example 1:

```
Input: startTime = [1,2,3], endTime = [3,2,7], queryTime = 4
Output: 1
Explanation: We have 3 students where:
The first student started doing homework at time 1 and finished at time 3 and wasn't doing anything at time 4.
The second student started doing homework at time 2 and finished at time 2 and also wasn't doing anything at time 4.
The third student started doing homework at time 3 and finished at time 7 and was the only student doing homework at time 4.
```

Example 2:

```
Input: startTime = [4], endTime = [4], queryTime = 4
Output: 1
Explanation: The only student was doing their homework at the queryTime.
```

Constraints:

- `startTime.length == endTime.length`
- `1 <= startTime.length <= 100`
- `1 <= startTime[i] <= endTime[i] <= 1000`
- `1 <= queryTime <= 1000`