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1395. Count Number of Teams

Medium   👍 143   👎 44   ♡ Add to List   ⬆ Share

There are `n` soldiers standing in a line. Each soldier is assigned a **unique** `rating` value.

You have to form a team of 3 soldiers amongst them under the following rules:

- Choose 3 soldiers with index (`i`, `j`, `k`) with rating (`rating[i]`, `rating[j]`, `rating[k]`).
- A team is valid if: (`rating[i] < rating[j] < rating[k]`) or (`rating[i] > rating[j] > rating[k]`) where (`0 <= i < j < k < n`).

Return the number of teams you can form given the conditions. (soldiers can be part of multiple teams).

Example 1:

```
Input: rating = [2,5,3,4,1]
Output: 3
Explanation: We can form three teams given the conditions. (2,3,4),
(5,4,1), (5,3,1).
```

Example 2:

```
Input: rating = [2,1,3]
Output: 0
```

```cpp
class Solution {
public:
    //I have referred to one of the solutions
    in the discuss section and felt it was neatly
    crafted
    //Take each index and keep it as the
    middle element in the three member array so
    essentially,
    // we just need to count the numbers(N)
    less than the number in left,right and the
    same with greater
    //Multiply the greterleft and lesserright
    and same with the other symbol

    int givelessleft(vector<int> a,int n ){
        int c=0;
        for(int i=0;i<n;i++){
            if(a[i]<a[n])
                c+=1;
        }
        return c;
    }

     int givemoreleft(vector<int> a,int n ){
        int c=0;
        for(int i=0;i<n;i++){
            if(a[i]>a[n])
                c+=1;
        }
        return c;
    }

    int givemoreright(vector<int> a,int n ){
        int c=0;
```

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