Number of greater elements to the right \square



Difficulty: Medium

Accuracy: 56.74%

Submissions: 32K+

Points: 4

Average Time: 10m

Given an array of **N** integers and **Q** queries of indices. For each query indices[i], determine the count of elements in arr that are **strictly greater** than arr[indices[i]] to its right (after the position indices[i]).

Examples:

Input: arr[] = [3, 4, 2, 7, 5, 8, 10, 6], queries = 2, indices[] = [0, 5]

Output: [6, 1]

Explanation: The next greater elements to the right of 3(index 0) are 4,7,5,8,10,6.

The next greater elements to the right of 8(index 5) is only 10.

Methods.

Dry fun

3 -> (ky, 7, 5, 8, 10, 6) -(idx = 0)

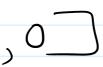
8 -> (10) - (Pdx = 5)

```
public static int[] count_NGEs(int N, int arr[], int queries, int indices[]) {
    // code here

    for(int i=0;i<indices.length;i++){
        int cnt=0;
        for(int j=indices[i];j<arr.length;j++){
            if(arr[indices[i]]<arr[j]) cnt++;
        }
        indices[i]=cnt;
    }

    return indices;
}</pre>
```

Medhad-2 Dry fun (3,4,2,2,5,8,10,6) La prover an-



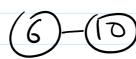
Node 1.

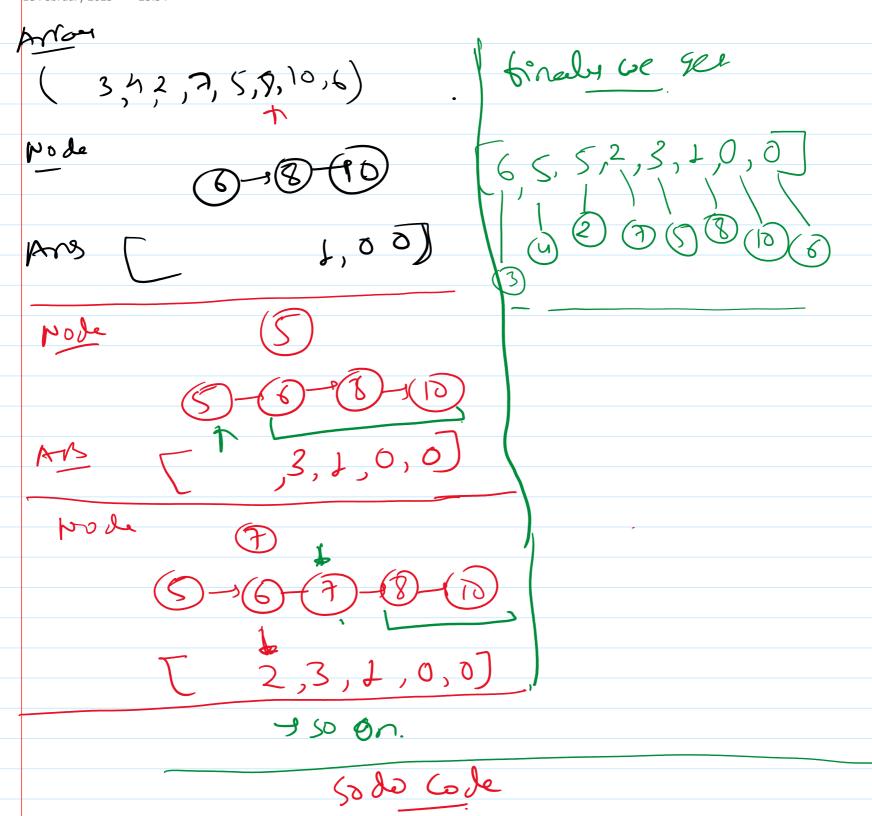


#

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Nobez.





(1st) who which veruin the idx 00 Current elem

```
public static int search(List<Integer> list , int key){
   int st=0, ei=list.size()-1;
   while(st<=ei){
      int mid=(st+ei)/2;

      if(list.get(mid)<=key){
        st=mid+1;
      }else{
        ei=mid-1;
      }
   }
   return st;
}</pre>
```

(01) function - which court the Greater dement Nent to it (it (outsin the No. (61) Cnt).

```
public static int[] nge(int[] arr){
   List<Integer> list=new ArrayList<>();
   int[] ans=new int[arr.length];

   for(int i=arr.length-1;i>=0;i--){
      int idx=search(list,arr[i]);
      list.add(idx,arr[i]);
      ans[i]=list.size()-idx-1;
   }
```

return ans;

3) (required the value (nr) woin braction in orc.

```
public static int[] count_NGEs(int N, int arr[], int queries, int indices[]) {
    // code here
    int[] ngeArr=nge(arr);
    int[] ans=new int[indices.length];
    for(int i=0;i<indices.length;i++){
        ans[i]=ngeArr[indices[i]];
    }
    return ans;
}</pre>
```

TC

for Binary

Ls (Log N)

Shore and element

N* Log N

Store the value

Direct to Plat.

T(-O(N* 69N)

S(-O(N) + O(index dun))

Store

Car all

Siz

Store cor all having answer size