

5196. Number of Visible People in a Queue

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There are n people standing in a queue, and they numbered from 0 to $n - 1$ in **left to right** order. You are given an array `heights` of **distinct** integers where `heights[i]` represents the height of the i^{th} person.

A person can **see** another person to their right in the queue if everybody in between is **shorter** than both of them. More formally, the i^{th} person can see the j^{th} person if $i < j$ and $\min(\text{heights}[i], \text{heights}[j]) > \max(\text{heights}[i+1], \text{heights}[i+2], \dots, \text{heights}[j-1])$.

Return an array `answer` of length n where `answer[i]` is the **number of people** the i^{th} person can **see** to their right in the queue.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:



Input: `heights = [10,6,8,5,11,9]`

Output: `[3,1,2,1,1,0]`

Explanation:

Person 0 can see person 1, 2, and 4.

Person 1 can see person 2.

Person 2 can see person 3 and 4.

Person 3 can see person 4.

Person 4 can see person 5.

Person 5 can see no one since nobody is to the right of them.

Example 2:

Input: `heights = [5,1,2,3,10]`

Output: `[4,1,1,1,0]`

Constraints:

- $n == \text{heights.length}$
- $1 \leq n \leq 10^5$
- $1 \leq \text{heights}[i] \leq 10^5$
- All the values of `heights` are **unique**.

JavaScript



```
1 ▾ const canSeePersonsCount = (a) => {  
2   let n = a.length;  
3   let res = Array(n).fill(0);  
4 ▾   for (let i = 0; i < n; i++) {  
5     let cnt = 0;  
6     let max = 0;  
7 ▾     for (let j = i + 1; j < n; j++) {  
8 ▾       if (a[j] < a[i]) {  
9         if (a[j] > max) cnt++;  
10        max = Math.max(max, a[j]);  
11 ▾      } else {  
12        cnt++;  
13        break;  
14      }  
15    }  
16    res[i] = cnt;  
17  }  
18  return res;  
19 };
```

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