

ProblemResult

Morning Assembly

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In a local school, N students have assembled for the morning assembly. All the students are standing in a straight line. Due to some technical issues, the mike is not working. The technician is trying to solve the issue. Students have to stand in the line, all this while. After a while, students start looking at each other. But, since they are not standing in any particular order of heights, not one cannot see everyone else.

Two students X and Y can see each other if they are standing next to each other or if no student standing between them has height greater than height of either X or Y.

You will be given height of students standing in the assembly line. You have to print the number of pairs of students that can see each other.

Input format:

The first line of input contains an integer N ($1 \leq N \leq 500000$), that denotes the number of students standing in the line.

Each of following N line contains an integer, that denote height of a particular person. The heights provided cannot be greater than 1000000000. The heights are provided in nanometers.

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int main() {
4
5     // Write your code here
6 }
```

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Constraints

Time Limit: 1 second

Output format:

Print the number of pairs of students that can see each other.

Sample Input 1:

```
7
2
4
1
2
```

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int main() {
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5     // Write your code here
6 }
```



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Time Limit: 1 second

Output format:

Print the number of pairs of students that can see each other.

Sample Input 1:

```
7
2
4
1
2
2
5
1
```

Sample Output 1:

```
10
```

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int main() {
4
5     // Write your code here
6 }
```

