Wildfire Risk

locked

In Los Angeles, wildfire activity is often influenced by temperature patterns, and the local fire monitoring team is trying to anticipate when higher temperatures might increase wildfire risks. They've gathered a list of daily temperature forecasts but need your help to analyze the data. For each day, they want to know how many days they'll have to wait until a warmer day arrives. This information is crucial for their planning and resource allocation. If no warmer day is expected in the future, mark it as 0, as no increase in temperature is anticipated. Can you assist the fire monitoring team in preparing for potential risks by providing this analysis?

```c
#include <stdio.h>
#include <stdlib.h>


int* dailyTemperatures(int* temperatures, int temperaturesSize, int*returnSize) {
    // Write your code here
    return 0;
}

int main() {
int N;
scanf("%d", &N);

int* temperatures = (int*)malloc(N * sizeof(int));
for (int i = 0; i < N; i++) {
    scanf("%d", &temperatures[i]);
}
int returnSize;
int* answer = dailyTemperatures(temperatures, N, &returnSize);

for (int i = 0; i < returnSize; i++) {
printf("%d", answer[i]);
if (i < returnSize - 1) printf(" ");
}
printf("\n");

free(temperatures);
free(answer);
return 0;
}
```

Input Format

1st line - 'N' size of array cost
2nd line - 'temperatures' array with N space separated positive integers

Constraints

1≤n≤10^5
30≤temperature[i]≤100

Output Format

1st line - 'answer' array with N space separated positive integers

Sample Input 0

```
5
70 70 70 70 70
```

Sample Output 0

```
0 0 0 0 0
```

Explanation 0

Day 1 (Temperature = 70):
Look at the next days: [70, 70, 70, 70].
None of these days have a temperature higher than 70.
Result: 0 (No warmer day ahead).

Day 2 (Temperature = 70):
Look at the next days: [70, 70, 70].
None of these days have a temperature higher than 70.
Result: 0 (No warmer day ahead).

Day 3 (Temperature = 70):
Look at the next days: [70, 70].
None of these days have a temperature higher than 70.
Result: 0 (No warmer day ahead).

Day 4 (Temperature = 70):
Look at the next day: [70].
The temperature is not higher than 70.
Result: 0 (No warmer day ahead).

Day 5 (Temperature = 70):
There are no more days to check.
Result: 0 (No warmer day ahead).

The final ans array:[0,0,0,0,0]

Sample Input 1

```
6
65 66 67 68 69 70
```

Sample Output 1

```
1 1 1 1 1 0
```

Explanation 1

Day 1:
Look at the next days: [66, 67, 68, 69, 70].
The next warmer day is Day 2 (Temperature = 66).
Number of days to wait: 1.

Day 2: Look at the next days: [67, 68, 69, 70]. The next warmer day is Day 3 (Temperature = 67). Number of days to wait: 1.

Day 3: Look at the next days: [68, 69, 70]. The next warmer day is Day 4 (Temperature = 68). Number of days to wait: 1.

Day 4: Look at the next days: [69, 70]. The next warmer day is Day 5 (Temperature = 69). Number of days to wait: 1.

Day 5: Look at the next day: [70]. The next warmer day is Day 6 (Temperature = 70). Number of days to wait: 1.

Day 6: There are no more days to check. No warmer day ahead.

The final ans array = [1,1,1,1,1,0]

C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1