



# 1204.44 more

Rank: **55157** |

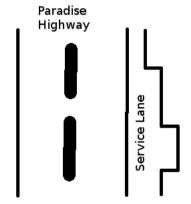
# Service Lane ☆

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# 公公公公公

Calvin is driving his favorite vehicle on the 101 freeway. He notices that the check engine light of his vehicle is immediately to avoid any risks. Luckily, a service lane runs parallel to the highway. The service lane varies in v



You will be given an array of widths at points along the road (*indices*), then a list of the indices of entry and expoint pair, calculate the maximum size vehicle that can travel that segment of the service lane safely.

For example, there are n=4 measurements yielding width=[2,3,2,1]. If our entry index, i=1 and our of 2 and 3 respectively. The widest vehicle that can fit through both is 2. If i=2 and j=4, our widths are [3,3,2,1].

#### **Function Description**

Complete the *serviceLane* function in the editor below. It should return an array of integers representing the through each segment of the highway described.

serviceLane has the following parameter(s):

- n: an integer denoting the size of the cases array
- cases: a two dimensional array of integers where each element is an array of two integers represented to the consider.

## Input Format

The first line of input contains two integers, n and t, where n denotes the number of width measurements ycases. The next line has n space-separated integers which represent the array  $width[w_0, w_1, \dots, w_{n-1}]$ .

The next t lines contain two integers, i and j, where i is the start index and j is the end index of the segment

### Constraints

- $2 \le n \le 100000$
- $1 \le t \le 1000$
- $0 \le i < j < n$
- $2 \le j i + 1 \le min(n, 1000)$
- $1 \le width[k] \le 3$ , where  $0 \le k < n$

#### **Output Format**

For each test case, print the number that represents the largest vehicle type that can pass through the entire indexes *i* and *i* inclusive.

## Sample Input

8 5

2 3 1 2 3 2 3 3

0.3

4 6

6 7

#### Sample Output

1

2

3

2 1

#### **Explanation**

Below is the representation of the lane:

0: | |--|

2

1:		3
2:	-	1
3:		2
4:		3
5:		2
6:		3
7:		3

- 1. (0,3): From index 0 through 3 we have widths 2,3,1 and 2. Nothing wider than 1 can pass all segments.
- 2. (4,6): From index 4 through 6 we have widht 3,2 and 3. Nothing wider than 2 can pass all segments.
- 3. (6,7):  $3,3 \rightarrow 3$ .
- 4. (3,5):  $2,3,2 \rightarrow 2$
- 5. (0,7):  $2,3,1,2,3,2,3,3 \rightarrow 1$ .