



☆ Stock market prediction

1
2
3
4
5
6

In this prediction game, the first player gives the second player some stock market data for some consecutive days. The data contains a company's stock price on each day. The rule for the game is quite simple:

- Player 1 will tell player 2 a day number and player 2 has to find the nearest day on which stock price is smaller than the given day,
- If there are two results, then player 2 has to find the day number which is smaller and if no such day exists, then the correct answer would be -1.

For example, the image below shows the stock market data for 10 consecutive days. The horizontal axis represents the day number and the vertical axis represents the stock price on that day.



Player 2 needs to answer every query of Player 1 correctly. Given the stock price for n consecutive days, can player 2 win the game?

Function Description

Complete the `predictAnswer` function in the editor below. The function must return an array of q integers denoting the answer to each query.

`predictAnswer` has 2 parameters:

- `stockData`: An array of n integers, where the value of each element `stockData[i]` is the stock price on the $i+1^{th}$ day (where $0 \leq i < n$).
- `queries`: An array of q integers, where the value of each element `queries[i]`, is the day number given in the query (where $0 \leq i < q$).

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq stockData[i] \leq 10^9$
- $1 \leq q \leq 10^5$
- $1 \leq queries[i] \leq 10^9$

Input Format For Custom Testing

Locked stub code in the editor reads the following input from stdin and passes it to the function.

The first line contains an integer, n , denoting the number of elements in `stockData`.

Each line i^{th} of the n subsequent lines contains an integer describing `stockData[i]`, which represents the stock price of $i+1^{th}$ day.

Next line contains an integer, q , denoting the number of elements in `queries`.

Each line i^{th} of the q subsequent lines contains an integer describing `queries[i]`, which represents the day number on i^{th} query.

Sample Case 0

Sample Input 0

```
10
5
6
8
```



3
6
4
3
3
1
8

Sample Output 0

2
4
-1

Explanation 0

- If the day number is 3, then Player 2 needs to say 2. This is because day 2 and 4 are both equally near to day 3 and have smaller stock prices than day 3 (6 and 4 respectively). The right answer is 2, since 2 is smaller than 4.
- If the day number is 1, then Player 2 needs to say 4. This is because day 4 is the nearest day that has stock price smaller than day 1. The right answer is 4.
- If the day number is 8, then Player 2 needs to say -1. This is because no other day on the list has a smaller stock price than day 8.

YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.

[Start tour](#)[View Code Diff](#)

Java 8



```
1  import java.io.*; ...
14
15  class Result {
16
17      /*
18       * Complete the 'predictAnswer' function below.
19       *
20       * The function is expected to return an INTEGER_ARRAY.
21       * The function accepts following parameters:
22       * 1. INTEGER_ARRAY stockData
23       * 2. INTEGER_ARRAY queries
24       */
25
26      public static List<Integer> predictAnswer(List<Integer> stockData, List<Integer> queries) {
27          // Write your code here
28      }
29  }
30
31 }
32
33 public class Solution { ...
```

Line: 14 Col: 1

☐ Test against custom input[Run Code](#)[Submit code & Continue](#)

(You can submit any number of times)

[Download sample test cases](#) The input/output files have Unix line endings. Do not use Notepad to edit them on windows.



- 1
- 2
- 3
- 4
- 5
- 6