• The player with the highest score is ranked number **1** on the leaderboard.

• Players who have equal scores receive the same ranking number, and the next player(s) receive the immediately following ranking number.

An arcade game player wants to climb to the top of the leaderboard and track their ranking. The game uses Dense Ranking, so its leaderboard

#### Example

ranked = [100, 90, 90, 80]

player = [70, 80, 105]

The ranked players will have ranks 1, 2, 2, and 3, respectively. If the player's scores are 70, 80 and 105, their rankings after each game are  $4^{th}$ ,  $3^{rd}$  and  $1^{st}$ . Return [4,3,1].

### **Function Description**

Complete the climbingLeaderboard function in the editor below.

climbingLeaderboard has the following parameter(s):

- int ranked[n]: the leaderboard scores
- int player[m]: the player's scores

#### Returns

• int[m]: the player's rank after each new score

## **Input Format**

The first line contains an integer n, the number of players on the leaderboard.

The next line contains n space-separated integers ranked[i], the leaderboard scores in decreasing order.

The next line contains an integer, m, the number games the player plays.

The last line contains m space-separated integers player[j], the game scores.

#### Constraints

•  $1 \le n \le 2 \times 10^5$ 

•  $1 \le m \le 2 \times 10^5$ 

 $ullet 0 \leq ranked[i] \leq 10^9 ext{ for } 0 \leq i < n$ 

•  $0 \le player[j] \le 10^9$  for  $0 \le j < m$ 

• The existing leaderboard, *ranked*, is in descending order.

• The player's scores, *player*, are in ascending order.

## Subtask

For 60% of the maximum score:

- $1 \le n \le 200$
- $1 \le m \le 200$

Copy Download Sample Input 1

> 100 100 50 40 40 20 10 5 25 50 120

## Sample Output 1

Copy Download Sample Input 2

100 90 90 80 75 60

```
# The function is expected to return an INTEGER_ARRAY.
    # The function accepts following parameters:
# 1. INTEGER_ARRAY ranked
# 2. INTEGER_ARRAY player
17
18 ∨ def climbingLeaderboard(ranked, player):
         # removing duplicates from the ranked list
        ordered_map = {}
        for rank in ranked:
            if rank not in ordered_map: ordered_map[rank] = True
24
        # duplicates have been removed, get back the list
        ranked = list(ordered_map.keys())
        stack = []
27
        # resultant ranks of all the players according to their scores in list player
        result = []
        # this will help us not append the scores back into the ranked list from the stack
34
        # assuming current score's rank to be the last, and we will update it as we compare it with scores in stack
        counter = len(ranked) + 1
37 🗸
        for score in player:
             while len(ranked) != 0:
39 🗸
                popped = ranked.pop()
41
                if popped > score:
42 🗸
                    result.append(counter)
                     # for next comparison
                     ranked.append(popped)
                     # rank for this score has been determined break out of the loop
                    break
                counter -= 1
             # when the while loop will determine that the current element's rank is 1
             # the ranked list will get empty and the rank will not be appended
54
             # hence, this check is necessary
             if counter == 1: result.append(1)
```

Line: 60 Col: 27

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return result

60 > if \_\_name\_\_ == '\_\_main\_\_':

57

Test against custom input

Run Code

Submit Code

# **Congratulations**

Would you like to challenge your friends?