Climbing the Leaderboard *

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Rank: 281538 | Points: 785.2/850

Problem Solving

X

Your Climbing the Leaderboard submission got 20.00 points.

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Problem

Submissions

Leaderboard

Editorial 🖰

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 works like this:

- 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.

Example

 $\mathit{ranked} = [100, 90, 90, 80]$

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 4th, 3rd and 1st. 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 \boldsymbol{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

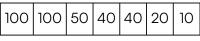
- $1 \le n \le 2 \times 10^5$
- $1 \le m \le 2 \times 10^5$
- $0 \leq ranked[i] \leq 10^9$ for $0 \leq i < n$
- $0 \leq player[j] \leq 10^9$ for $0 \leq j < m$
- The existing leaderboard, *ranked*, is in descending order.
- $\bullet~$ The player's scores, $\emph{player},$ are in ascending order.

Subtask

For 60% of the maximum score:

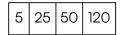
- $1 \le n \le 200$
- $1 \le m \le 200$

Sample Input 1 Copy Download



Array: ranked

7 100 100 50 40 40 20 10 4 5 25 50 120



Array: player

Sample Output 1

6

4 2

-

Explanation 1

Alice starts playing with ${f 7}$ players already on the leaderboard, which looks like this:

Rank	Name Score	
1	Emma 100	
1	David	100
2	Caroline	50
3	Ritika	40
3	Tom	40
4	Heraldo	20
5	Riley	10

After Alice finishes game ${\bf 0}$, her score is ${\bf 5}$ and her ranking is ${\bf 6}$:

Rank	Name	Score	
1	Emma 100		
1	David	100	
2	Caroline	50	
3	Ritika	40	
3	Tom	40	
4	Heraldo	20	
5	Riley	10	
6	Alice	5	

After Alice finishes game ${\bf 1}$, her score is ${\bf 25}$ and her ranking is ${\bf 4}$:

Rank	Name Score		
1	Emma	100	
1	David	avid 100	
2	Caroline	50	
3	Ritika	40	
3	Tom	40	
4	Alice	25	
5	Heraldo	20	
6	Riley	10	

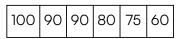
After Alice finishes game ${\bf 2}$, her score is ${\bf 50}$ and her ranking is tied with Caroline at ${\bf 2}$:

Rank	Name Score	
1	Emma	100
1	David	100
2	Caroline	50
2	Alice	50
3	Ritika	40
3	Tom	40
4	Heraldo	20
5	Riley	10

After Alice finishes game ${\bf 3}$, her score is ${\bf 120}$ and her ranking is ${\bf 1}$:

Rank	Name	Score
1	Alice	120
2	Emma	100
2	David	100
3	Caroline	50
4	Ritika	40
4	Tom	40
5	Heraldo	20
6	Riley	10

Sample Input 2 Copy Download



Array: ranked

50	65	77	90	102

Array: player

6 100 90 90 80 75 60 5 50 65 77 90 102

Sample Output 2

```
Change Theme Language Python 3
                                                                                                               ₩ :
          import re
      7
          import sys
      8
          import bisect
      9
     10
     11
          # Complete the 'climbingLeaderboard' function below.
     12
     13
          # The function is expected to return an INTEGER_ARRAY.
          # The function accepts following parameters:
     14
          # 1. INTEGER_ARRAY ranked
     15
             2. INTEGER_ARRAY player
     16
     17
     18
     19
     20
          def climbingLeaderboard(ranked, player):
     21
               # Write your code here
     22
     23
              unique_sorted = sorted(list(set(ranked)), reverse=True)
     24
     25
               result = []
     26
               for score in player:
     27
                   left, right = 0, len(unique_sorted)
                   # Binary search to find the insertion point
     28
                  while left < right:</pre>
     29
                       mid = (left + right) // 2
     30
     31
                       if unique_sorted[mid] > score:
                           left = mid + 1
     32
     33
                       else:
     34
                           right = mid
     35
                   result.append(left + 1)
     36
               return result
     37
     38
                       == '
                             main ':
     39
          if
                name
EMACS
                                                                                                            Line: 38 Col: 5
                                                                                                       Run Code
                                                                                                                  Submit Code
 1 Upload Code as File
                      Test against custom input
 You have earned 20.00 points!
 You are now 64.8 points away from the gold level for your problem solving badge.
                                                 785.2/850
```



Congratulations Next Challenge You solved this challenge. Would you like to challenge your friends? Compiler Message Success Input (stdin) Download 100 100 50 40 40 20 10 5 25 50 120 Expected Output Download 4

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