Alice is playing an arcade game and wants to climb to the top of the leaderboard and wants to track her ranking. The game uses dense ranking, so its leaderboard works like this:

- The player with the highest score is ranked number 1 on the leader board
- Players who have equal scores receive the same ranking number, and the next player(s) receive the immediately following ranking number.

For example, the four players on the leaderboard have high scores of 100, 90, 90, 80. Those players will have ranks 1, 2, 2, and 3 respectively. If Alice's scores are 50, 90, 100, 120 her rankings after each game are 4, 2, 1, and 1.

**Function Description**

Create the *climbingLeaderboard* function. You should return an integer array where each element res[j] represents Alice's rank after jth game.

climbingLeaderboard has the following parameter(s):

- *scores*: an array of integers that represent leaderboard scores
- *alice*: an array of integers that represents Alice's scores

**Sample input 1:**

Array: *scores*

100 100 50 40 40 20 10

Array *alice*: 5 25 50 120

**Sample output 1:**

6

4

2

1

**Explanation 1:**

Alice starts playing with 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 0, her score is 5 and her ranking is 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 1, her score is 25 and her ranking is 4:

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

After Alice finishes game 2, her score is 50 and her ranking is tied with Caroline at 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 3, her score is120 and her ranking is 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:**

Array: *scores*

100 90 90 80 75 60

Array: *alice*

50 65 77 90 102

**Sample Output 2**

**6**

**5**

**4**

**3**

**1**