Question :

Let’s play a Musical Chair Game. There are N players who are going to play musical chairs. Each player will be having a rating based on their presence of mind and running speed. Ratings will be having values of 1 <= ratings <= N. The player with more age will be having more presence of mind. Design an optimal algorithm to find the elimination order. The player with the highest rating will be the winner. Display the elimination order.

Input Description :

First line consists of a number N represents number of players
Second line consists of N players' ratings.

Output Description :

Elimination order

Solution:

```
n = int(input())
name = [x for x in input().split()]
ratings = [int(x) for x in input().split()]

dict_ = {}
for i in range(len(name)):
    dict_[ratings[i]] = name[i]

ratings.sort()
elimination_order = []
for i in ratings:
    elimination_order.append(dict_[i])

print(*elimination_order)
```

Test cases :

Test case 1:

Input
5
A B C D E
3 2 5 1 4
Output
D B A E C

Test case 2:

Input
9

B C D H T E F R G
4 2 5 1 7 8 3 9 6
Output
H C F B D G T E R

Test case 3:
Input
5
D C A B E
4 3 1 2 5
Output
A B C D E

Test case 4:
Input
7
D E T Y A S D
5 3 1 2 4 7 6
Output
T Y E A D D S

Test case 5:
Input

2
A K
2 1
Output
K A