

# Queue (Rookie)

There are **N** people standing in a Queue. You are given the height of each person and the number of people who are taller and standing ahead of him. You have to find the position of each person.

## Input

First line contains a single integer **T**, the number of test cases. It is followed by **T** test cases each of which contains 3 lines. First line of each test case contains a single integer **N**. Second line contains **N** integers representing the heights of these **N** people. Third line also contains **N** integers denoting the number of taller people standing ahead of him.

## Output

Output one line for each test case which contains the heights of the **N** people in the order in which they are standing.

## Constraints

$$0 < T \leq 100$$

$$0 < N \leq 1000$$

Expected Time Complexity =  $O(N^2)$

## Example

**Input:**

```
1
5
33 11 22 44 55
0 2 1 1 0
```

**Output:**

```
33 22 11 55 44
```

Harder Version : [Queue \(Pro\)](#)