## **Hotel Room**

The hotel manager wants to assign the room to the customer. The hotel has N rooms, and each room numbered with 1 to N. Now all rooms are available. The manager wants assign the room according to the following rules.

- 1. Each customer gives the room number they wish to stay in
- 2. If the room is available, manager can assign the room
- 3. If the room is already assigned, the manager can assign the room with the lowest number among the available rooms and also with a larger number than the desired room

## Input:

The first line contains one positive integer N which is total number of rooms The second line, list of customers' desired room numbers with space-separated

## **Output:**

Print, list of room numbers that assigned to customer with space-separated

## Sample:

No.	Sample Input	Sample Output
1	10 1 3 4 1 3 1	134256
2	20 3 5 2 1 7 19 2 6 7 8 15 16 19 14	3 5 2 1 7 19 4 6 8 9 15 16 20 14