Delete Unvisited Nodes

You are given a linked list and you visit the nodes in the following manner -

- When you are at a node you visit the Kth node after that, where K is the value of that node.
- If there are less than K nodes after a particular node then you reach NULL.
- You stop when you reach NULL.
- Initially, you are at the head.

You have to delete all the unvisited nodes in the linked list.

Input Format

First-line contains N, the number of nodes in the linked list. Second line contains N space separated integers, the value of the ith node in the linked list.

Constraints

- $0 \leq Number\ of\ nodes \leq 10^5$
- $1 \leq ListNode.val \leq 10^5$

Output Format

Print the linked list after deleting all the unvisited nodes.

Sample Input 0

```
6
1 2 3 1 2 3
```

Sample Output 0

```
1 2 1 2
```

Explanation 0

Initially, you are at the head (Node with value 1). So you move to the 1st node after that, which is the node with value 2.

From node 2 you visit the 2nd node after that which is the node with value 1.

In a similar way, you go to the second last node (value 2).

From there since there are less than 2 nodes you reach NULL and stop.

So, the visited nodes are 1, 2, 1 and 2.