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Example: Initially peoples are $1,2,3,4, \ldots$

a) 2 - we give command to robot to catch second man
b) 2 - we give command to robot to knockoff third man

Note that, new position of third man is 2 after catching second man
Input:
First line of input contains an integer S , where S is the length of list ' L ', $L$ < 100001. of people to be knocked off. Second Line of input contains $S$ integers - indices which are to be knocked off

## Output:

output in one line with the space separated position of indices where the gun will shoot.

## Sample Input

2
23

## Sample Output

22

