

Problem Statement

You are given N integers. Then you are given 2 queries. First query consists of 1 integer denoting the position which should be removed. Next query consists of 2 integers denoting the range that should be removed.

Some more functions of vector are:

- *erase(int position):*

Removes the element present at position.
Ex: `v.erase(v.begin()+4);` (erases the 5th element of the vector `v`)

- *erase(int start, int end):*

Removes the elements in the range from start to end inclusive of the start and exclusive of the end.
Ex: `v.erase(v.begin()+2, v.begin()+5);` (erases all the elements from the third element to the fifth element.)

Input Format

The first line of the input contains an integer N . The next line contains N space separated integers. The third line contains a single integer x , denoting the position of an element that should be removed from the vector. The fourth line contains two integers a and b denoting the range that should be erased from the vector inclusive of a and exclusive of b .

Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq x \leq N$$

$$1 \leq a \leq b \leq N - 1$$

Output Format

Print the size of the vector in the first line and the elements of the vector after the two erase operations in the second line separated by space.

Sample Input

```
6
1 4 6 2 8 9
2
2 4
```

Sample Output

```
3
1 8 9
```