

## 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.

The following are some useful vector functions:

- *erase(int position):*

Removes the element present at position.  
Ex: `v.erase(v.begin()+4);` (erases the 5<sup>th</sup> 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
```