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Permutation Clear

Problem Code: PERMCLEAR

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Alice has an array A of length N which is initially a *permutation*. She dislikes Knumbers which are B_1, B_2, \dots, B_K all of which are **distinct**. Therefore, she removes all the occurrences of these numbers from A. The order of the remaining elements of the A does **not** change.

Can you find out the resulting array A?

Note: A permutation of length N is an array where every integer from 1 to Noccurs exactly once.

Input Format

- $\bullet\,$ The first line contains a single integer T the number of test cases. Then the test cases follow.
- The first line of each test case contains an integer N the size of the array
- The second line of each test case contains N integers A_1, A_2, \ldots, A_N denoting the array A.
- ullet The third line of each test case contains an integer K the size of the array
- The fourth line of each test case contains K integers B_1, B_2, \ldots, B_K denoting the numbers which Alice dislikes.

Output Format

For each test case, output the resulting array A after the removal of all occurrences of $B_1, B_2, \dots B_K$.

It is guaranteed that there will be at least one element in the resulting array.

Constraints

- 1 < T < 1000
- $1 \le K < N \le 10^5$
- $1 \leq A_i, B_i \leq N$
- ullet A is initially a permutation.
- $B_i \neq B_j$ when $(i \neq j)$
- Sum of N over all test cases does not exceed $2 \cdot 10^5$.

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Sample Input 1 4

```
3
4
4 1 3 2
2
3 1
9
5 2 9 1 8 6 4 3 7
3
5 8 9
5
3 4 5 1 2
2
2 3
```

Sample Output 1 4

```
4 2
2 1 6 4 3 7
4 5 1
```

Explanation

Test Case 1: Here A=[4,1,3,2] and B=[3,1]. The resulting array A after removing all the numbers which Alice dislikes is [4,2].

Note that here $\left[2,4\right]$ is an incorrect answer since the order of elements should be the same as in the original array.

Test Case 2: Here A=[5,2,9,1,8,6,4,3,7] and B=[5,8,9]. The resulting array A after removing all the numbers which Alice dislikes is [2,1,6,4,3,7].

Test Case 3: Here A=[3,4,5,1,2] and B=[2,3]. The resulting array A after removing all the numbers which Alice dislikes is [4,5,1].

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Date Added: 6-09-2022
Time Limit: 0.5 secs
Source Limit: 50000 Bytes

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