

Find the intersection of two sorted arrays.

OR in other words,

Given 2 sorted arrays, find all the elements which occur in both the arrays.

Input Format

· The first line contains T, the number of test cases. Following T lines contain:

1. Line 1 contains N1, followed by N1 integers of the first array
2. Line 2 contains N2, followed by N2 integers of the second array

Output Format

The intersection of the arrays in a single line

Example

Input:

1

3 10 17 57

6 2 7 10 15 57 246

Output:

10 57

Input:

1

6 1 2 3 4 5 6

2 1 6

Output:

1 6

For example:

Input	Result
1	10 57
3 10 17 57	
6	
2 7 10 15 57 246	

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main() {
4     int T;
5     scanf("%d", &T);
6     while (T--) {
7         int n1, n2;
8         scanf("%d", &n1);
9         int a[n1];
10        for (int i = 0; i < n1; i++)
11            scanf("%d", &a[i]);
12
13        scanf("%d", &n2);
14        int b[n2];
15        for (int i = 0; i < n2; i++)
16            scanf("%d", &b[i]);
17
18        int i = 0, j = 0;
19        while (i < n1 && j < n2) {
20            if (a[i] == b[j]) {
21                printf("%d ", a[i]);
22                i++;
23                j++;
24            } else if (a[i] < b[j]) {
25                i++;
26            } else {
```

```

19 while (i < n1 && j < n2) {
20     if (a[i] == b[j]) {
21         printf("%d ", a[i]);
22         i++;
23         j++;
24     } else if (a[i] < b[j]) {
25         i++;
26     } else {
27         j++;
28     }
29 }
30 printf("\n");
31 }
32 return 0;
33 }
34

```

	Input	Expected	Got	
✓	1 3 10 17 57 6 2 7 10 15 57 246	10 57	10 57	✓
✓	1 6 1 2 3 4 5 6 2 1 6	1 6	1 6	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.