

Week 4: Assignment 4 - Question 2

Description

Given two arrays of positive integers, write a C Program to output the smallest number in the first array that is also present in the second one.

Input

The first line contains the size of the first array.
The second line contains the contents of first array.
The third line contains the size of the second array.
The fourth line contains the contents of second array.

Output

Output the smallest number occurring in the first array that also occurs in the second.
In case there is no such number, output -1.

Note : The sizes of the arrays are smaller than 20.

Sample input 1

```
3
2 4 3
4
1 3 6 4
```

Sample Output 1

3

Explanation

The numbers in the first array that also appear in the second array are 3 , 4 .
The smallest among them is 3.

Sample input 2

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

Sample Output 2

-1

Explanation

No numbers from the first array appear in the second array.
The output is -1.