CSE107 PRE-LAB ASSIGNMENT WEEK 8

You are given two arrays A and B, each of length 5. Your task is to determine if it is possible to make A equal to B by reversing any subarrays of B any number of times.

Write a program in **C** to solve this problem.

Example Input:

```
Enter 5 elements for array A:
1 2 3 4 5
Enter 5 elements for array B:
5 4 3 2 1
```

Example Output:

```
Yes, array B can be made equal to array A.
```

Explanation:

By reversing the entire array B, we get $[1, 2, 3, 4, 5]$, which is equal to A.

Example Input:

```
Enter 5 elements for array A:
1 2 3 4 5
Enter 5 elements for array B:
1 5 4 3 2
```

Example Output:

```
Yes, array B can be made equal to array A.
```

Explanation:

After reversing the subarray of B from indices 1 to 4, array B will equal array A.

Example Input:

```
Enter 5 elements for array A:
1 2 3 1 4
Enter 5 elements for array B:
1 2 4 3 2
```

Example Output:

```
No, array B cannot be made equal to array A.
```

Explanation:

Even with any number of subarray reversals, it is not possible to rearrange B to make it equal to A because the frequency of elements in A and B do not match.

Constraints:

- Both arrays A and B must have exactly 5 elements. If not, the program will display a warning.
- Array elements must be integers. Otherwise, the program will warn the user.