1. (100 pts) Write a program that finds the first non-repeating element in an array if it exists. First non-repeating element is the element with the smallest index that appears only once in the array. Declare an array of size 7 and read the array elements from the user. Then, compute and print the first non-repeating element if it exists. Consider the following example.

First non-repeating element in this array is 1 since all the other elements with smaller indexes appear in the array more than once. Sample execution of the program for this array is given below.

```
Enter 7 numbers
3 2 3 3 2 3 1
```
```
First non-repeating = 1
```

In some cases first non-repeating element does not exist and every element appears multiple times in the array. Following example shows this.

```
Enter 7 numbers
1 2 2 3 1 3 1
```
```
No first nonrepeating element
```

One approach to this problem is to start from the beginning of the array and check for each element whether it repeats or not. Once you find an element that does not repeat, you can stop and report the result.

Submit your program electronically using the blackboard system.

The program you submit should be your own work. Cheating will be reported to office of academic integrity. Both the copier and copiee will be held responsible.