Assignment 1

CSE225L.10, Summer'21

Marks: 30

1. Given an unsorted array of N integers (N > 0) and an integer value x, write the function

that returns zero-based index in the array at which the value x is located. Function should

return negative value if array does not contain x. In case that there are multiple occurrences

of x within the array, return smallest index at which x occurs.

Example: Suppose that array is: 9, 2, 6, 8, 1, 4, 5. For x=6 function returns 2. For x=3,

function returns negative value (e.g. -1).

2. Write a program to reverse a string using stack.

Hints: a) Create an empty stack.

b) One by one push all characters of string to stack.

c) One by one pop all characters from stack and put them back to string.

3. Given two unsorted arrays of integer numbers, write a function which returns number of

elements that exist in both arrays. Elements may be repeated in any of the arrays, and all

common appearances should be counted.

Example: Suppose that the first array is 3, 1, 4, 1, 2 and the second array is 5, 1, 2, 4, 2, 1.

Common elements of the two arrays are 1, 1, 2 and 4, and therefore the function should return

result 4.