

## National University of Computer and Emerging Sciences, Lahore Campus



Course:	Object Oriented Programming	Course Code:	
Program:	BS(Computer Science)	Semester:	Spring 2019
Topic:	Pointers	Total Marks:	10
Due Date:	18 <sup>th</sup> September,2019	Weight	%
Section:	A & B	Page(s):	1
Exam:	Assignment 2	Reg. No	

### Submission Folder:

On slate

### Submission Instructions:

- Submit your running files carefully. After deadline no updated files will be accepted.

Write a C++ program that reads textual data from a file "Data.txt". File contains a paragraph of say **n** sentences. Number of sentences **n** in the file will be on the first row of file.

### For example

Suppose we have the following file with 7 sentences

7

*Pakistan is a country in southern Asia. It is next to India, Iran, Afghanistan, and China. It is officially called the Islamic Republic of Pakistan. It has a long coastline along the Arabian Sea in the south. Do you know its area? This makes Pakistan the 34th largest country in the world. Pakistan has the seventh largest army in the world.*

Declare a dynamic array of **n** rows (number of columns should be equal to length of each sentence). Populate each row with a sentence from file.

Above file will be loaded as

Row 0	Pakistan is a country in southern Asia.
Row 1	It is next to India, Iran, Afghanistan, and China.
Row2	It is officially called the Islamic Republic of Pakistan.
Row 3	It has a long coastline along the Arabian Sea in the south.
Row 4	Do you know its area?
Row 5	This makes Pakistan the 34th largest country in the world.
Row 6	Pakistan has the seventh largest army in the world.

Implement the following function (decide the prototype of the function yourself).

#### 1) SearchAndReverse

Program will take the word (which is not case sensitive i.e. Country, COUNTRY, country are same) (1D character array) to search from the user. Function should return all the sentence numbers in which the word occur and function should reverse that whole sentence.

Suppose user enter the word "country"

Country is in sentence **0 and 5.**

It will bring following changes in 2D array

Row 0	<i>Asia southern in country a is Pakistan.</i>	
Row 1	It is next to India, Iran, Afghanistan, and China.	
Row2	It is officially called the Islamic Republic of Pakistan.	
Row 3	It has a long coastline along the Arabian Sea in the south.	
Row 4	Do you know its area?	
Row 5	<i>World the in country largest 34<sup>th</sup> the Pakistan makes This.</i>	
Row 6	Pakistan has the seventh largest army in the world.	