ANKARA UNIVERSITY
COMPUTER ENGINEERING DEPARTMENT

COM1002-COMPUTER PROGRAMMING 2

Spring 2020-21 Term

LAB9 Quiz

Assoc. Prof. Dr. Hacer Yalım Keleş

Date: 28/05/2021

Duration: 120 minutes

Task: Given *N, the total number* of names, and the set of names following N; make a dynamic memory allocation and store these names in the allocated memory. (You may assume that name lengths will not exceed 30 characters.) Then, sort the given names within in your memory and print the sorted name list.

- Print the names in descending order, i.e. the reverse of the dictionary order.

- The names can contain small or capital letters; you need to represent all the characters in a name in small letters first (before sorting). i.e. john marie jack etc.

Input format: [S] stands for a Space character

<N: number of names>['\n']
<Name 1>[S]<Name 2>[S] … <Name N>

Output Formatı: Name_A<i> below shows the i'th name in the descending ordered name set.

< Name A1>'\n'
< Name A2>'\n'
…
< Name AN>'\n'

Example Input:

3
boB aNNie John

Output:

john bob annie

Hints:

You can include <string.h> file and use related string functions if you need them.

Testing:

No test files will be provided for this quiz. Test your programs with your own test files while developing your program.

As usual, use *input redirection* mechanism of your operating system to test your programs. For example, if your executable is called as **Lab9**, redirect the input.txt file to standard input using **<** operator and redirect your outputs to a file using **>** operator such as:

> **./Lab9<input.txt>output.txt**

This kind of execution enables your programs to read inputs from a file without writing any file related functions (e.g. fopen(), fscanf() etc.). In other words, the getchar() or scanf() functions in your code reads data from the redirected files instead of the std. input in this way (e.g. keyboard).

Submission:

Before submission, make sure that your source file is named as **StudentNumber.c**

Good luck ☺