ANKARA UNIVERSITY
COM102B
Fall 2016-17 (Spring)
Programming Assignment 1

Submission Deadline: 14/03/2017, 23:55

In this assignment you will write a C++ program that reads a vocabulary, i.e. a set of words, from the std. input and (1) counts the number of occurrence of each word in the vocabulary, (2) prints out the words in the vocabulary in ascending order. The vocabulary size **will not exceed** 1000.

For example, if the vocabulary includes:
>Mehmet ayse MeHmet Ayse ayse MehMET barni mehmet

Your program will print to the std. output the following text:

Vocabulary Size = 3
ayse 3
barni 1
mehmet 4

Notice that, all words in the vocabulary should be treated case insensitively; and the words must be printed in small letters.

Hints:

1- You can use <string> standard library
2- Your program needs to read the input until EOF is reached. You can do this simply by the following loop control:

```
string s;
while(cin>>s){..}
```

3- Strings can be compared using ==, <, > operators.

Testing:

We provide sample input/output text files for you to test your codes at Ubuntu. These text files looks in a different format in Windows. If you want to see and use them in Windows operating system, you need to change the line endings to Windows. You can do this easily on Wondows by using Notepad++ program, using *Edit/EOF Conversion Menu*.

We recommend you to use *input redirection* mechanism of your operating system to test your programs. For example, if your executable is called as **PA1**, redirect the **input.txt** file to standard input using **<** operator and redirect your outputs to a file using **>** operator such as:

> ./PA1<input.txt>output.txt

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

Warning: Any form of code copying, including the copies from the internet, is strictly prohibited. If we determine similarities between your codes with any other students in the class, it will be treated as cheating and will be punished. So, you would increase the risk of cheating when you see somebody else's code directly or see a solution in the internet (i.e. somebody else might have also copied the same code from the internet like you, so both of these codes will be evaluated as copies, since they both copy from an external source. Such attempts will always be considered as cheating). You are supposed to write the solution by yourselves.

Please test your programs with the given I/O files before submission.
Ask any questions related with the homework specs. to the course news forum in Moodle.
Follow the announcements about the submission of this homework from Moodle.

Work hard, have fun ☺