

Ankara University
Computer Engineering
COM2067 LAB 5

In this lab, you will create a simple call log using the priority queue. When the person's phone is on silent or turned off, the list of callers is recorded and shown to the person. What is required of you is to write a C program that shows this record (i.e. call log) to the person by sorting it according to their priorities. Alphabetical order will be taken into account in priority equality.

People's priority information is as follows:

- 1: My Mother, My Father, My Brother.
- 2: My Uncle, My Aunt
- 3: Workplace, School.
- 4: My Friend1, My Friend2, My Friend3, My Friend4, My Friend5.
- 5: Bank, Cargo.
- 6: Advertisement.

Submission:

Name your source file as <StudentID>.c. For example, if your ID is 22290777, then you will submit 22290777.c file.

Testing:

We provide a sample input/output text file pairs for you to test your codes at Ubuntu. Please carefully review the sample input and output files given to you for the correct output format.

We recommend you to use input redirection mechanism of your operating system to test your programs. For example, if your executable is called as Lab5, redirect the input.txt file to standard input using < operator and redirect your outputs to a file using > operator such as:

```
> ./Lab5 < 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, scanf reads data from the redirected files instead of the std. input in this way (e.g. keyboard).

Automatically compare your own output with the expected output by using the **diff myOutput1.txt output1.txt** command. If a warning as shown below does not appear on the screen after executing this command, this means that your program is working correctly. If you see a warning in the command system after executing the command, this indicates that there is a problem with your output.

Test your program for different inputs that you will create yourself. Please note that the input files given to you and the input files used during the evaluation may differ from each other.