

## BIL214 - Systems Programming

### LAB7

In this lab, you will answer the 1 question given below. You will write a C script into a file named "q1\_<studentid>.c" and upload your file into the form below. Make sure your scripts can be compiled correctly with the gcc compiler.

Upload Form: <https://forms.gle/AsTtZ9tpyM24ZrFU7>

Deadline: 18:30 04.11.2021

#### 1. File I/O

You will write a C script that takes 3 arguments, input file name(-i), output file name(o) and operation select(s). Your program should read the input file and perform the operation determined with the operation select argument and write the result into the output file. Operation select argument shall be one of the following.

- 0: No operation, output file should be the same as input file.
- 1: Alphabetical sort, you should sort the lines of the input file.
- 2: Reverse order, you should reverse the order of the lines of the input file.
- 3: Switch, you should switch each nth line with (n+1)th line where n is even.

Ps. Order of arguments might change. Each line of the input file might consist of uppercase, lowercase characters and space characters. If the input file doesn't exist, the program should terminate with a warning. If the output file already exists, the program should overwrite it.