

Assignment 5

Programming

For this assignment, you will develop a to-do list program using a priority queue. Your program should start by greeting the user and giving the following options,

```
*** WELCOME TO THE TO-DO LIST APPLICATION ***
---- DEVELOPED BY THE MYSTERIOUS DEVELOPER ----
```

To use this program press:

```
'l' to load to-do list from a file
's' to save to-do list to a file
'a' to add a new task into the list
'g' to get the first task from the list
'r' to remove the first task from the list
'p' to print the list
'e' to exit the program
```

To develop this program, you will need the interface and implementation files for the priority queue and the interface and implementation files for the dynamic array. Start by using the dynamic array to implement your priority queue like we did in the class. Then, you will need to write the main to-do list program in `todo_main.c`. The main program will provide an interface for user interaction with the priority queue. For all the file manipulation options, and getting input from the user, please refer to your recitation files. We provide the dynamic array implementation and the makefile, but feel free to use your own.

The `program_demo.txt` shows the tests that your program should pass to get a full grade. Test your program using those commands and be prepared to answer questions on how your program execute each of those options.

As has already been said, you can implement this program using any language you want. Please read the announcement on CANVAS for more info.

Grading:

Programming

- 7 x user options = 100 pts (14.28 pts per option)
- Something cool = 10pts (If you have to ask what something cool would be then it's not something cool)

What to turn in:

- All the files required to run your program