COMP1521 Week 8

Welcome!!!

Questions

- q1-6q9-16

```
int main(int argc, char *argv[]) {
    if (argc == 1) {
        fprintf(stream: stderr, format: "Usage: %s <pattern> <file>...\n", arqv[0]);
    if (argc == 2) {
       // process stdin
        process file(file: stdin);
    if (argc > 2) {
        for (int i = 2; i < argc; i++) {
            FILE *input_file = fopen(filename: argv[i], modes: "r");
            if (input file == NULL) {
                fprintf(stream: stderr, format: "Error opening file %s\n", argv[i]);
                exit(status: 1);
            process_file(file: input_file);
            fclose(stream: input_file);
```

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
void process_file(FILE *file, char *target) {
    char buffer[4096];
   while (fgets(s: buffer, n: 4096, stream: file) != NULL) {
        if (strstr(haystack: buffer, needle: target) != NULL) {
            fputs(s: buffer, stream: stdout);
```

```
fprintf(stream: stderr, format: "Error opening file %s %d\n", argv[i], errno);
exit(status: 1);
}
```