

Question 4:

```
q1_208845628.c
1 #include <stdio.h>
2 #include <ftw.h>
3
4 int print_meta_data(const char *fpath, const struct stat *sb, int tflags, struct FTW *ftwbuf)
5 {
6     if (tflags == FTW_SLN || tflags == FTW_SL) {
7         return 0;
8     }
9     printf("%c %ju %ju\n", (tflags == FTW_D ? 'D' : 'F'), sb->st_ino, fpath + ftwbuf->base);
10    return 0;
11 }
12
13 void main(int argc, char **argv) {
14     if (argc != 2) {
15         printf("You have to give a path to a directory");
16         return;
17     }
18     if (nftw(argv[1], print_meta_data, 4, FTW_PHYS)) {
19         return;
20     }
21     return;
22 }
23
```

```
shahar@shahar-VirtualBox:~/Documents/Work_208845628/q_15 cd ..
shahar@shahar-VirtualBox:~/Documents/Work_208845628$ cd q_4
shahar@shahar-VirtualBox:~/Documents/Work_208845628/q_4$ ./dir_traversal dir
D 7833 dir
F 8824 b
D 8114 sub
F 8115 x
```

Running output of dir_traversal with dir example.