

Problem 1

Below is my screenshot about the solution to the problem 1 of homework 1.

The screenshot displays two overlapping windows on a dark-themed Ubuntu desktop. The top window is a terminal titled 'kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1'. It shows the compilation and execution of a C program 'lab1.c'. The program prints 'Hello world! This is CS6233 Fall 2021.' followed by a random number between 0 and 100. The output shows '68' and '64' in two separate runs. The bottom window is a file manager titled '21Fall-OScode Homework hw1'. It shows a directory containing two files: 'hw1.out' and 'lab1.c'.

```
lab1.c > ...
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <time.h>
4
5  int main() {
6      printf("Hello world! This is CS6233 Fall 2021.\n");
7
8      srand(time(NULL));
9      printf("%d\n\n", rand() % 100);
10     return 0;
11 }
12 //This code is finished by Yinhong Qin, with netID yq2021 and student ID N14457656.
```

```
kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1
kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1$ gcc -o hw1.out lab1.c
kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1$ ./hw1.out
Hello world! This is CS6233 Fall 2021.
68
kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1$ ./hw1.out
Hello world! This is CS6233 Fall 2021.
64
kevinqyh0827@ubuntu: ~/21Fall-OScode/Homework/hw1$
```

File Manager: 21Fall-OScode Homework hw1

- Recent
- Starred
- Home
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Trash
- Other Locations

Files: hw1.out, lab1.c

Figure 1: Screenshot of the terminal and directory