

PROGRAMMING

Problem 1:

```
quockhanh@Khanh-VirtualBox:~/Programming/Problem_1$ ls -l
total 12
-rw-rw-r-- 1 quockhanh quockhanh 135 Thg 1  25 22:09 factorial.c
-rw-rw-r-- 1 quockhanh quockhanh  98 Thg 1  25 22:04 factorial.h
-rw-rw-r-- 1 quockhanh quockhanh  90 Thg 1  25 22:17 Makefile
quockhanh@Khanh-VirtualBox:~/Programming/Problem_1$ make
gcc -c -o factorial.o factorial.c
quockhanh@Khanh-VirtualBox:~/Programming/Problem_1$
```

Problem 2:

```
quockhanh@Khanh-VirtualBox:~/Programming/Problem_2$ ls -l
total 12
-rw-rw-r-- 1 quockhanh quockhanh  86 Thg 1  25 22:55 Makefile
-rw-rw-r-- 1 quockhanh quockhanh 268 Thg 1  25 23:38 readline.c
-rw-rw-r-- 1 quockhanh quockhanh  89 Thg 1  25 22:18 readline.h
quockhanh@Khanh-VirtualBox:~/Programming/Problem_2$ make
gcc -c -o readline.o readline.c
quockhanh@Khanh-VirtualBox:~/Programming/Problem_2$
```

Problem 3:

```
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ ls
factorial.c factorial.h main.c Makefile readline.c readline.h
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ make
gcc -c -o main.o main.c
gcc -c -o readline.o readline.c
gcc -c -o factorial.o factorial.c
gcc -o myfactorial main.o readline.o factorial.o
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ ./myfactorial
Hello, World
-1
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ ./myfactorial
Operating system
-1
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ ./myfactorial
6
720
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ ./myfactorial
10
3628800
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$ make clean
rm -f *.o myfactorial
quockhanh@Khanh-VirtualBox:~/Programming/Problem_3$
```

Problem 4:

```
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$ ls
main.c  Makefile  numbers.txt
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$ cat numbers.txt
12
3
4
10
11
15
4
88
19
60
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$ make
gcc -o main main.c
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$ ./main
6
4
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$ make clean
rm -f *.o main
quockhanh@Khanh-VirtualBox:~/Programming/Problem_4$
```