OS HW2 Programming projects

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□□□ 110590004 □□□
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□□: $\frac{1}{3}$ for each

Environment
- OS: Ubuntu 22.04
- Kernel: Linux 5.15.153.1-microsoft-standard-WSL2
- Compiler: gcc 13.1.0

Ch7 project 1

Commands

```
cd 7.P1
make
./pool
```

Result image
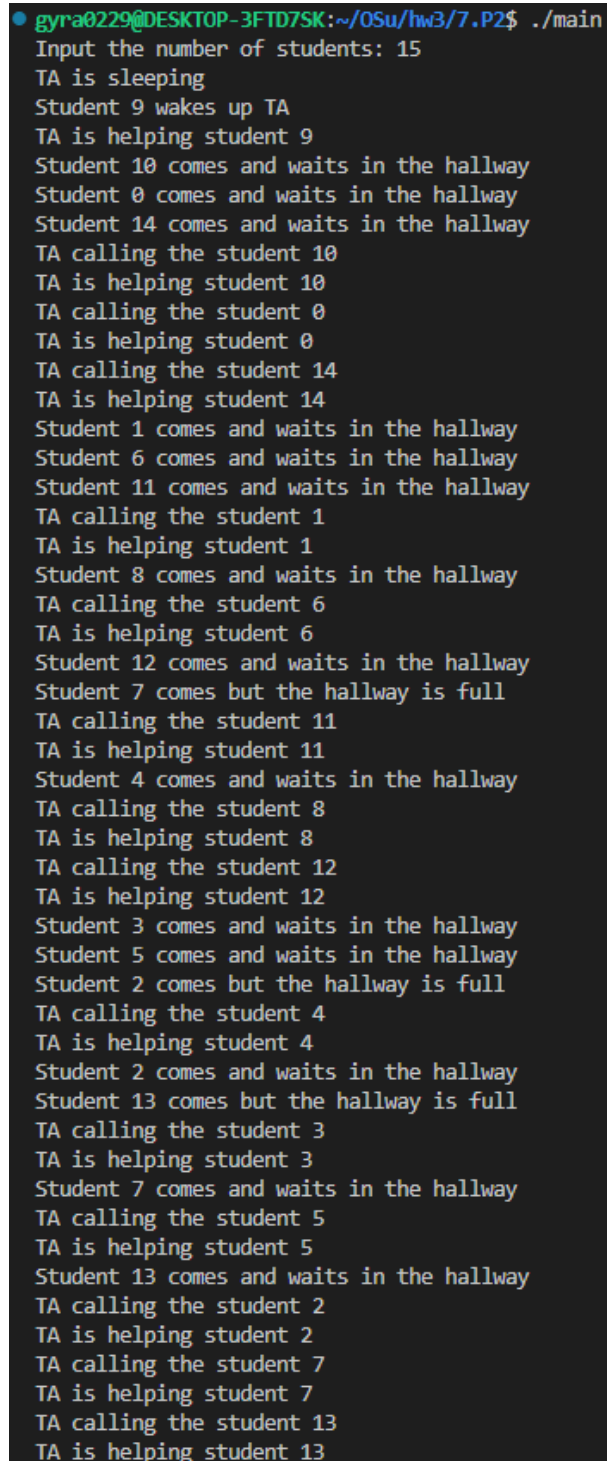

Figure 1: The result for `./main` in `4.P1`

Ch7 project 2

Commands

```
cd 7.P2
gcc main.c -pthread -o main
./main
```

Result image

Figure 2: The result for `./main` in `7.P2`

Ch7 project 3

Commands

```
cd 7.P3
gcc main.c -pthread -o main
./main
```

Result image
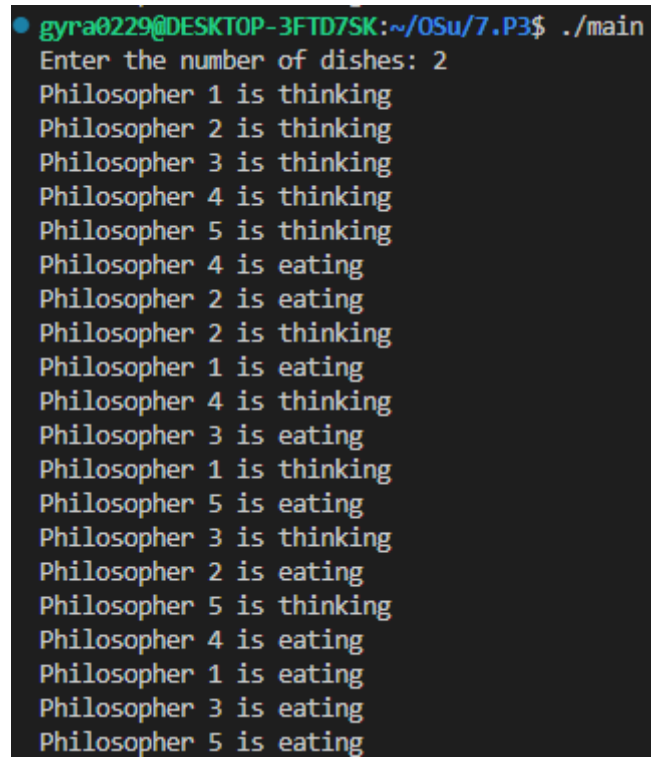

Figure 3: The result for ./main in 7.P3

Ch7 project 4

Commands

```
cd 7.P4
gcc main.c -pthread -o main
./main
```

Result image
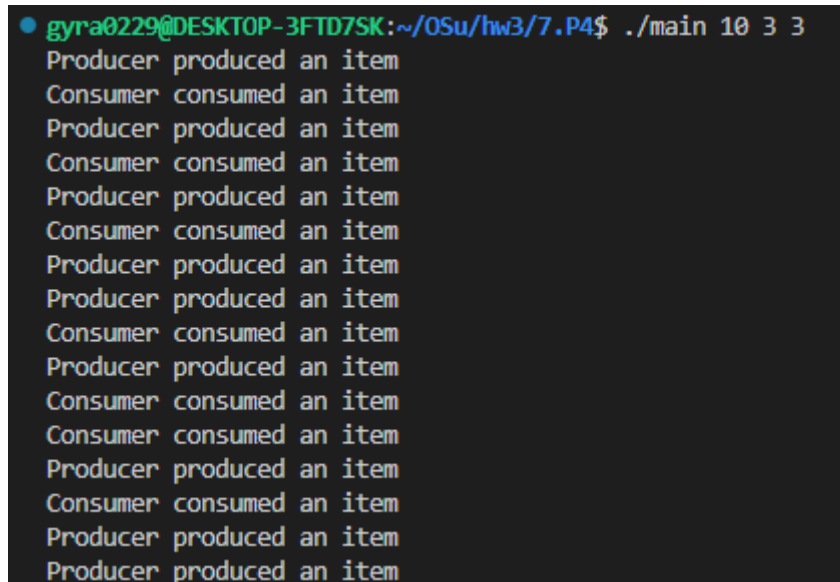

Figure 4: The result for `./main` in `7.P4`

Ch8 project 1

Commands

```
cd 8.P1
gcc main.c -pthread -o main
./main
```

Result image

Figure 5: Part of the result for `./main` in `8.P1`

Ch9 project 1

Commands

```
cd 9.P1
gcc main.c -pthread -o main
./main
```

Result image

```
gyra0229@MSI:~/OSu/hw3/9.P1$ gcc main.c -o allocator
gyra0229@MSI:~/OSu/hw3/9.P1$ ./allocator 100
allocator> RQ P0 10 W
allocator> RQ P1 15 W
allocator> RQ P2 20 W
allocator> RQ P3 25 B
allocator> RQ P4 30 F
allocator> STAT
Address [0:9] Process P0
Address [10:24] Process P1
Address [25:44] Process P2
Address [45:69] Process P3
Address [70:99] Process P4
allocator> C
allocator> STAT
Address [0:9] Process P0
Address [10:24] Process P1
Address [25:44] Process P2
Address [45:69] Process P3
Address [70:99] Process P4
allocator> RL P1
allocator> RL P3
allocator> STAT
Address [0:9] Process P0
Address [10:24] Unused
Address [25:44] Process P2
Address [45:69] Unused
Address [70:99] Process P4
allocator> RQ P5 5 F
allocator> STAT
Address [0:9] Process P0
Address [10:14] Process P5
Address [15:24] Unused
Address [25:44] Process P2
Address [45:69] Unused
Address [70:99] Process P4
allocator> RQ P6 1 W
allocator> STAT
Address [0:9] Process P0
Address [10:14] Process P5
Address [15:24] Unused
Address [25:44] Process P2
Address [45:45] Process P6
Address [46:69] Unused
Address [70:99] Process P4
allocator> RQ P7 9 B
allocator> STAT
Address [0:9] Process P0
Address [10:14] Process P5
Address [15:23] Process P7
Address [24:24] Unused
Address [25:44] Process P2
Address [45:45] Process P6
Address [46:69] Unused
Address [70:99] Process P4
allocator> C
allocator> STAT
Address [0:9] Process P0
Address [10:14] Process P5
Address [15:23] Process P7
Address [24:43] Process P2
Address [44:44] Process P6
Address [45:74] Process P4
Address [75:99] Unused
allocator> Q
```

Figure 6: The result for `./main` in `9.P1`