

執行結果:

第一題

FIFO

```
ben@ubuntu:~/Desktop$ ./D1053020_1FIFO
Enter the number of processes(max 5): 5
Enter the burst time for process 1: 10
Enter the burst time for process 2: 18
Enter the burst time for process 3: 3
Enter the burst time for process 4: 10
Enter the burst time for process 5: 6
Process ID      Burst Time
1               10
2               18
3               3
4               10
5               6
-----
FIFO Average Waiting Time = 22.00
```

LIFO

```
ben@ubuntu:~/Desktop$ ./D1053020_1LIFO
Enter the number of processes(max 5): 5
Enter the burst time for process 1: 10
Enter the burst time for process 2: 18
Enter the burst time for process 3: 3
Enter the burst time for process 4: 10
Enter the burst time for process 5: 6
Process ID      Burst Time
1               10
2               18
3               3
4               10
5               6
-----
LIFO Average Waiting Time = 15.60
```

在這個 case 下 LIFO 比 FIFO 還來的有效率，因為 LIFO 比 FIFO 的平均等待時間來的短，但如果換成別的 case 就不一定了。

第二題

SJF

```
ben@ubuntu:~/Desktop$ ./D1053020_2SJF
Enter the number of processes(max 5): 5
Enter the burst time and priority for process 1: 10 3
Enter the burst time and priority for process 2: 18 1
Enter the burst time and priority for process 3: 3 2
Enter the burst time and priority for process 4: 10 1
Enter the burst time and priority for process 5: 6 3
Before sort: Process ID Burst Time      Priority
                1         10             3
                2         18             1
                3          3             2
                4         10             1
                5          6             3
After sort: Process ID  Burst Time      Priority
                  4         10             1
                  2         18             1
                  3          3             2
                  5          6             3
                  1         10             3
-----
SJF Average Waiting Time = 21.20
```