이 과제는 스케줄링 알고리즘을 구현하는 것이다.

FCFS SJF만 구현에 성공하였다.

다음은 실행 결과이다.

1. FCFS

```
FcFs 알고리즘의 수행 결과입니다
프로세스인덱스 Θ
FinishingTime is 12
TurnAroundTime is 12
CpuTime is 5
IOTime is 4
WaitingTime is 3
프로세스인덱스 1
FinishingTime is 14
TurnAroundTime is 14
CpuTime is 5
IOTime is 4
WaitingTime is 5
프로세스인덱스 2
FinishingTime is 15
TurnAroundTime is 12
CpuTime is 5
IOTime is 4
WaitingTime is 3
SummaryData
FinisningTime is 15
CPU UtiliZation is 100.0
IOUtiliZation is 80.0
AverageTurnAroundTime is 12.666667
AverageWaitingTime is 3.0
```

```
Process Count
FcFs 알고리즘의 수행 결과입니다
프로세스인덱스 4
FinishingTime is 730
TurnAroundTime is 630
CpuTime is 500
IOTime is 20
WaitingTime is 110
프로세스인덱스 2
FinishingTime is 1400
TurnAroundTime is 1400
CpuTime is 500
IOTime is 107
WaitingTime is 793
프로세스인덱스 3
FinishingTime is 1639
TurnAroundTime is 1539
CpuTime is 100
WaitingTime is 1439
```

다음과 같은 결과가 출력되었다.

다음으로 SJF 스케줄링의 결과이다.

SJF 알고리즘의 수행 결과입니다 프로세스인덱스 Θ FinishingTime is 12 TurnAroundTime is 12 WaitingTime is 3 프로세스인덱스 1 FinishingTime is 14 WaitingTime is 5 프로세스인덱스 2 FinishingTime is 15 TurnAroundTime is 12 IOTime is 4 WaitingTime is 3 SummaryData FinisningTime is 15 CPU UtiliZation is 100.0 AverageTurnAroundTime is 12.666667 AverageWaitingTime is 3.0

```
Process Count
5
0 200 3 3
0 500 9 3
0 500 20 3
100 100 1 0
100 500 100 3

SJF 알고리즘의 수행 결과입니다

프로세스인텍스 5
FinishingTime is 207
TurnAroundTime is 107
CpuTime is 100
IOTime is 0
WaitingTime is 7

프로세스인텍스 4
FinishingTime is 791
TurnAroundTime is 691
CpuTime is 14
WaitingTime is 177

프로세스인텍스 2
FinishingTime is 1461
TurnAroundTime is 1461
CpuTime is 500
IOTime is 99
WaitingTime is 862

프로세스인텍스 0
FinishingTime is 1801
TurnAroundTime is 1801
```

```
프로세스인텍스 1
FinishingTime is 1832
TurnAroundTime is 1832
CpuTime is 500
IOTime is 217
WaitingTime is 1115

SummaryData
FinisningTime is 1832
CPU UtiliZation is 98.25327
IOUtiliZation is 26.037117
AverageTurnAroundTime is 1178.4
AverageWaitingTime is 711.0
```