**운영체제**



**CPU 스케줄링**

|  |  |  |
| --- | --- | --- |
| **12조** | | |
| 이름 | 학번 | 스케줄 알고리즘 |
| **김동현** | **2017152044** | **First Come First Service(선입선출)** |
| **심정수** | **2017152047** | **Priority Queue(우선순위)** |
| **이길형** | **2017150048** | **Round Robin** |

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# CPU 스케줄링 알고리즘 선택 이유

## FCFS, Priority Queue, Round Robin 선택 이유

* 운영체제 수업을 통해 CPU 스케줄링에 대해 학습하고 구현하는 팀 프로젝트를 과제로 내려 받았다. 우리 12조는 김동현, 심정수, 이길형으로 이루어진 팀이며 공통점으로는 19년도에 편입한 편입생이라는 점이다. 세명 모두 컴퓨터공학과는 관련 없는 과에서 컴퓨터공학과로 전공을 바꾼 케이스였다. 기본적으로 프로그래밍 실력과 이해도가 낮은 상태로 과제를 시작했기 때문에 초반부터 쉽지 않았다. 포인터와 구조체 연결리스트에 대한 교수님의 보충수업을 들었음에도 그것을 구현하기는 쉽지 않았고 그 상태로 스케줄링 프로세스 코드를 작성하는 것은 큰 어려움이었다. 이러한 난관을 해결하기 위하여 각자 프로그래밍에 필요한 학습을 개별적으로 시행한 후 정기적인 스터디를 통해 서로의 지식을 공유하고 세명에서 모두 모여 프로그래밍을 시작했다. 우리의 목표는 프로그램을 완성 자체였기 때문에 난이도에 연연하지 않고 실력내에서 구현가능한 스케줄링 알고리즘을 선정하였고 그 결과 FCFS(First Come First Service), Priority Queue(우선순위 기반), Round Robin(라운드 로빈)을 선정하였고 개인적인 실력에 따라 FCFS(김동현), Priority Queue(심정수), Round Robin(이길형)을 선정하였다.

# FCFS : First Come First Service (김동현)

## FCFS 스케줄링 알고리즘

* FCFS선입 선처리 방식은 비 선점형 스케줄링 이다. 비선점형 스케줄링은 프로세스가 cpu에 할당되면 권한을 뺏을 수 없으며 일괄처리 방식에 적당하다. 또한 문맥교환이 적다. FCFS선입 선처리 방식은 따로 기준을 정해두지 않고 Process 가 Ready 큐에 들어온 순서대로 cpu를 할당 하는 방식이다. arrival time이 빠른 Process 순으로 cpu를 할당한다.

예)

[Process 1]

arrival time : 0

computing time : 10

[Process 2]

arrival time : 10

computing time : 20

[Process 3]

arrival time : 20

computing time : 30

* 이렇게 Process 3개가 ready queue 에 들어왔다고 가정 했을 때 도착시간이 가장 빠른 Process 1부터 cpu를 할당한다. arrival time 이 0이고 computing time 이 10 이므로 turnaround time 은 10이 되고 Process 2에 cpu를 할당한다. Process 2의 arrival time 이 10 이고 cpu를 할당 받는 시간 또한 10 이므로 waiting time은 0이며 turn around time 은 20 이 된다. Process 3의 경우 arrival time 은 20 이고 cpu를 할당 받는 시간은 30 이므로 waiting time 은 10 이며 turnaround time 은 40 이 된다.

## FCFS 자료구조

* 사용한 자료 구조로는 대기 큐를 구현하기 위해 단일 연결리스트(Singly Linked List)를 사용 하였으며 연결리스트에 들어갈 노드는 다음 노드의 주소 값을 가지는 구조체 포인터 변수 Next를 선언하였고, 노드의 데이터에 들어갈 구조체를 Type, 프로세스 ID, 서비스 시간(Computing Time), 도착 시간(Arrival Time), 반환 시간(Turn Around Time), 정규화 된 반환시간(Normalized Turn Around Time)을 필드로 가지고 있다. head라는 구조체 포인터 변수를 설정하고 가장 앞에 있는 노드의 주소를 가지게 설정해두고 항상 가장 앞에 있는 노드를 가리키게 한다. 노드에 각각 다음 노드를 가리키는 구조체 포인터 변수를 만들고 다음 노드의 주소를 기억하게 한다. 만약 head가 가리키는 주소가 NULL이라면 대기 큐 리스트에는 아무런 프로세스가 존재하지 않음을 의미한다.

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzkAAJKSAAIAAAADMzkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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[그림 ‑] FCFS를 구현하기 위해 사용한 구조체

## FCFS 구현 방법

### 라이브러리 및 전역변수

1. **#include<stdio.h>** : 표준 입출력 라이브러리로 FCFS의 기본적인 입출력을 기능을 불러온다.
2. **#include<stdlib.h>** : 노드를 생성하기 위해 동적 메모리를 할당과 해제를 하기 위해 호출한 라이브러리이다.
3. **#define SIZE 100** : 매크로의 값을 100으로 설정하여 input.txt로부터 입력 받는 구조체 배열의 최대 크기를 100으로 설정한다.
4. **int time :** 전체 프로세스의 러닝타임을 체크하기 위해 설정한 변수이다. 전역변수로 선언하였고 0으로 초기화 하였다. 서비스 시간이 증가되거나 도착시간을 할당하기 위해 사용했다.
5. **int process\_count** : 입력된 프로세스의 개수를 가지는 전역 변수이다. 정규화 된 반환시간의 평균을 구할 때 사용한다.
6. **double normalized\_turn\_around\_time\_average** : 정규화 된 반환시간의 평균의 값을 기억하는 전역변수이다. 정규화 된 반환시간을 모두 더하고 위의 process\_count의 수 만큼 나눠준다.

![개체이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTAAAJKSAAIAAAADMTAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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[그림 ‑] FCFS를 구현하기 위해 사용한 라이브러리 및 전역변수

### 메인 함수

1. **int ps\_cnt** : input.txt로부터 데이터를 받기위해 사용한 inputArr 함수로부터 데이터의 개수를 반환 받아 기억해두기 위한 변수이다.
2. **process p1[SIZE]** : input.txt로부터 inputArr 함수를 이용해 배열로 값을 저장하기 위한 구조체 배열 변수이다.

### 함수 설명

* 선입선출(FCFS : First Come First Service)를 구현하기 위해 사용한 함수 리스트이다. 대기 큐와 프로세스를 구현하기 위해 노드 생성 함수와 노드를 리스트에 연결하는 함수 그리고 리스트에서 노드를 제외하는 함수를 사용하였다. input.txt에서 데이터를 불러오기 위해 inputArr 함수를 사용하였고 input.txt의 값을 확인하기 위한 printArr 함수와 완료된 프로세스의 데이터를 출력하기 위한 print\_ps 함수로 구성되어 있다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTAAAJKSAAIAAAADNTAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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6SVj5SkDIEfTPXn39OKwJJGlkaSRizuSzE9yaHvoC21G1u6b/xLPD15qRyJrn/Rbc+gPLt+XFYVTz3txc28EE0m6K3UrEoUAKDyenX61E4uSsROLlZC2Fm9/qEFrEPmmcL9PU1d8Q3kd1qpjtv+Pa1UQQj/AGV4z+Jyao2l7cWExltJPLkKlN20EgHrjPT61BRytzuw5Xz8zCpbe3e6k2RtGpxnMsqxj82IFRUVZfodF4ds2sdajnuriyjiVXBb7bCeqkDo1Zn9j3P/AD1sv/A6H/4uqFFZ8submuZqMk27l6ztLxZPPtLiGGSNiof7ZHGwPtlgce4q/wCZr/8A0Gf/ACrR/wDxysKim4t72+4bi2+n3GjfQahKvn315FcFBgFr6OVgPQAMT+VOi1S3eyt7bUbNrkWzExMk3lnaTkq3ByM/Q1mUUct1Z/5ByJqzOj069l1H+3bqfaGeyPCjAUAgAD2AqDxZ/wAhaH/r1i/9BrGjnlhVxFK6CRdrhWI3D0PqKku72e+mEt1J5jqgQHaBwOAOKhU7T5lsRGnafMtv+G/yIK09D0+HULqYTCSTyYWlWCI4eYj+EHB/xrMpVYqwZSQQcgg9K0km1ZGkk2rI0o7u2kuViGh27Fm2+XG828+w+c8/gfpTNbsItN1WS2gdmRVU4cgspIBKnHcU063qrKVbU7wgjBBuG5/WqNTGLTuTGLTuWba6igQrLY29ySchpWkBHt8rCtDTLu2m1a0i/su1j3zIu+OSYMuSOQfM4NY1Phmkt545oW2yRsGU4zgjpTlG45QunYsaqgj1i8RckLO4G5iT949zya1WtLW0igW8TSUkkhSQeYbosQRkE7eM/SsKaZ7id5pm3SSMWY4xknk1aTWdUjjVI9Su0RRhVWdgAPQDNS4y5UrilGTtY0ribTU0O7iiktVuJGQolo1wFYA87hJwfas7RrKLUdXgtbiUxRyNgsMZPHQZ7noPrTJtW1G4iaK4v7qWNvvI8zMD+BNVKIwaTV9xKDUWr6s057q3guGhOhwRlDt2TPNvH1w45/AVL4htfs0lphp08yAN9lncs1vyfl9h6d6qLrWqIgRNSvFVRgATsAB+dU3dpHZ3YszHJYnJJ9aFB3TBRd0za064uv7MuruF7WM2AjK/6FEzNlsA7iucjrnmqU+r3Vzu89bZi5yzC1iVic5zuC5zUFte3VkWNnczW5b7xikK5+uKsf25q3/QUvf/AAIf/GjktJuyDks27IZq1/8A2pqs955fleaQdm7djgDrx6VTqSe4mupTLcyyTSHq8jFifxNR1cVZJGkVZWRfttVNvpzWMlpb3EDS+diXeCGxjqrDtWvoWqPqHiTSYjBDBHbb1jWLd0IJ/iJNczT4ZpbeVZYJHikX7roxBH4ionTUkzOdNSTSNbUxu8P6KBjJ84cnH8dVf7Huf+etl/4HQ/8AxdVpbuaa3hglfdHBu8tcD5cnJ+vNQ04xklb1/MpRkl9/5nR+IrNr/VvOtbiykj8qNc/bYhyFAPVqy7X/AIlOsWk1yUdYpElbyJUk4B9VJGeOmaoUURg4x5b6CjC0eR7bGnc/2TcXUs32y9XzHL4+yIcZOf8AnrV3R1gW11oWskkkf2E/NJGEOcjsGP8AOufqe3vJ7WOZIJNizp5cg2g7l9OaUoNxsmKUG1a/Ym0i0a91OOBUhckMds5YJgKTzt57dq0P+Jb/ANQX/wAnaxoJ5raYS20rwyL0eNipH4irf9uat/0FL3/wIf8AxolGTd0wlGTd0x2s/wBn+dB/Znl48ked5XmbfMyc4384xis6p7m9urxlN5czXBUYUyyFsfnUFXFNKzLimlZlvTr99Ou/ORFkVkMckb9HQ8EVOdTt4LWeHTbR4GuBskklm8xgmc7VwowOOetZtFDhFu7Bwi3c7e//AOPjWf8AsFxfyWuZiv4bXRpLe2RxdXJ2zytjAjByFX69/pUC6neqsw+0O3nxiKQv8xZR0GT0/CqtZQpcqs/Iyp0uVWfl+CR1OhX8Ooa9pbSRuL2MNHJJn5ZECHaT33dvwqhq3/ItaJ9J/wD0ZWRDNLbyiWCR4pF6OjEEfiKfLeTz2sFvK+6K33eWuB8u45PPfn1p+ztNNf1v/mP2dpJrb/h/8y62p291awR6laSTSW6COOWGYRsUHRSCrA49eK0NH1F9Q8W6ediwwwgxwwqSRGgU8ZPJPqa5yprW6msrpLi1fZLGcq2AcduhpyppppeY5U04tLzCG6uLSdpLSeSB+RuicqcemRW1rl5qOmaiIINW1BkMSPl7liclcnpXP9avLreqqoVdTvAAMAC4bj9acoXaY5RvK4v9uat/0FL3/wACH/xqizM7lnYszHJJOSTVqfVdQuoTFc31zNGeqSTMwP4E1Uqoq3QqKt0CuhguTpvh6ynN1qX795FEdve+UibT2G09c1z1WoNU1C1iEVrfXMMYOQkczKB+ANTOPMiZx5rGxorWdxcXn2Rby3l+ySsZGuEk3DHIIMY6+uc1iW17dWbMbO5mtywwxikK5/Kpn1rVJEZJNSvGVhhladiCPTrVKlGFm7hGFr3Om8PatqM818Jr+6kC2MrLvmY4IAwRz1rHOuasRg6neY/6+H/xqC2vJ7NpDbPsMsZjfgHKnqOagoVNczdhKmk27BRRRWpqFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

[그림 ‑] FCFS를 구현하기 위해 사용한 함수 리스트

1. **int inputArr(process\* ps)** : input.txt로부터 값을 불러와 구조체 배열의 주소 구조체 포인터 변수로 받아와 구조체 배열에 입력한다. 텍스트 파일에 아무것도 없다면 “파일에 아무것도 없습니다.”를 출력하고 -1을 반환한다. for문을 사용하여 배열에 매개변수로부터 받은 ps 구조체 배열에 type, id, com\_time을 순서대로 대입하고 process.reamain 멤버는 처음 입력된 서비스 시간으로 초기화한다. type=-1이라면 마지막으로 입력된 배열의 개수를 1증가하고 입력을 중단한다. 마지막으로 변수 count의 값을 반환한다. 함수에서 선언 된 count 변수는 입력된 배열의 개수의 값을 저장하는 변수이다.

|  |
| --- |
| int inputArr(process\* ps) // input.txt에서 불러와 노드 구조체에 입력한 데이터를 출력하는 함수  {  int i = 0, cnt = 0;  FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기  if (fp == NULL)  {  printf("파일에 아무것도 없습니다.");  return -1;  }  else  {  for (i = 0; i < SIZE; i++)  {  fscanf(fp, "%d,%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.  if (ps[i].type == -1) // type = -1 이면 입력을 중단한다  {  break;  }  cnt++;  }  }  fclose(fp);  return cnt;  } |

[그림 ‑] 함수 int inputArr의 코드

1. **void printArr(process\* ps, int cnt)** : input.txt 의 파일로부터 오류없이 정확히 구조체 배열에 들어갔는지 확인하기 위해 구조체 배열의 입력된 값을 출력하는 함수이다. 매개변수로는 inputArr로부터 값을 저장한 구조체 배열과 입력 받은 배열의 개수를 의미하는 int형 cnt 변수이다.

|  |
| --- |
| void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수  {  int i = 0;  for (i = 0; i <= cnt; i++)  {  if (ps[i].type == 0 || ps[i].type == 1)  {  printf(" |%5d|%11d|%15d|\n", ps[i].type, ps[i].id, ps[i].com\_time);  }  else if (ps[i].type == -1)  {  printf(" |%5d| | |\n", ps[i].type);  }  } |

[그림 2‑5] 함수 void printArr의 코드

1. **void print\_ps(process \*ending\_ps)** : 서비스 시간을 모두 수행한 프로세스를 출력하는 함수이다. 구조체 멤버 remain 의 값이 0이되면 프로세스가 완료되었다고 가정하고 Process ID, 실행시간(Computing Time), 도착시간(Arrival Time), 반환시간(Turnaround Time) ,정규화 된 반환시간(Normalized Turnaround Time)을 출력한다. 반환시간은 종료된 시간 – 도착 시간이며 정규화 된 반환시간은 반환시간을 실행시간으로 나눈다. normalized\_turn\_around\_time\_average 변수에 정규화 된 반환시간을 더해준다.

|  |
| --- |
| void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수  {  ending\_ps->turn\_time = time - ending\_ps->arr\_time; // 반환시간 = 종료시간 - 도착시간  ending\_ps->nta\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time; // 정규화된 반환시간 = 반환시간 / 실행시간  normalized\_turn\_around\_time\_average += ending\_ps->nta\_time;  printf(" |%11d|%15d|%13d|%17d|%19.2lf|\n", ending\_ps->id, ending\_ps->com\_time, ending\_ps->arr\_time, ending\_ps->turn\_time, ending\_ps->nta\_time);  } |

[그림 2‑6] 함수 void print\_ps의 코드

1. **Node\* makeNode(process data)** : 대기 큐에 프로세스 역할을 할 노드를 생성하는 함수이다. 매개변수로 구조체 배열의 값을 불러와서 구조체 포인터로 반환한다 구조체 크기만큼 메모리를 동적할당하고 노드의 next값을 NULL로 설정하고 매개변수로 받아온 값을 Node.data 멤버에 대입하고 생성된 노드의 구조체 포인트 형태로 반환한다.

|  |
| --- |
| Node\* makeNode(process data) // 노드를 생성하는 함수  {  Node \*newNode = (Node\*)malloc(sizeof(Node));  newNode->next = NULL;  newNode->data = data;  return newNode;  } |

[그림 ‑] 함수 Node\* makeNode의 코드

1. **void putNode(Node\*head, Node\* node)** : 프로세스를 대기 큐에 넣는 것을 구현하기 위해 프로세스 역할을 하는 노드를 리스트에 연결하는 함수이다. 처음 노드를 가리키는 head를 매개변수로 받아오고 연결시킬 노드를 구조체 포인터 node를 매개변수로 받아온다. head->next가 NULL을 가리키면 리스트에 노드가 없는 상태이기 때문에 head->next에 연결시킬 노드의 주소를 대입한다. 만약 head->next 가 NULL이 아니면 마지막 노드의 주소를 찾아 마지막 노드의 주소를 받을 변수를 포인터 변수 finding\_lastone을 선언하고 while을 이용해 마지막 노드의 next 멤버에 매개변수로 받은 node의 주소값을 넣고 리스트를 연결한다.

|  |
| --- |
| void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수  {  if ((head->next) == NULL) // head->next 가 NULL 을 가지고 있으면 head에 node를 연결한다  {  head->next = node;  }  else  {  Node\* finding\_lastone = head->next; // 마지막 노드의 주소를 담아둘 포인터 변수  while (finding\_lastone->next != NULL) // head->next 가 NULL 이 아니면 NULL이 될때까지 반복한다  {  finding\_lastone = finding\_lastone->next; // NULL이 아니면 포인터 변수 finding\_lastone에 finding\_lastone->next 값 을 넣는다  }  finding\_lastone->next = node; // finding\_lastone->next는 마지막 노드의 주소를 가지고 있다.  }  } |

[그림 ‑] 함수 void putNode의 코드

1. **Node\* outNode(Node\* head)** : 대기 큐에서 프로세스가 완료되어 대기 큐에서 제외하는 것을 구현하기 위한 함수이다. 리스트에서 노드를 제외하는 기능을 하며 제외하기 위한 노드의 주소 값을 기억하기 위한 구조체 포인터 변수 address를 선언하고 그 주소를 반환한다. head.next 가 NULL을 가리키면 리스트에 노드가 없는 상태이기 때문에 아무런 실행을 하지 않고 NULL을 반환한다. 만약 NULL이 아니면 리스트에 노드가 남아있는 상태기 제외된 노드가 빠지고 비어 있는 next 값을 연결한다.

|  |
| --- |
| Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수  {  Node\* address; // 리스트에서 뺄 노드의 주소를 담아둘 포인터 변수  address = head->next;  if (head->next == NULL) // head->next 가 NULL 이면 아무것도 안하고 NULL을 반환한다  {  return NULL;  }  else  {  head->next = head->next->next; //head->next 가 NULL이 아니면 head->next를 연결되있는 노드의 next 값을 받아서 연결한다  }  address->next = NULL; // 리스트에서 빼낸 노드의 next 값에 NULL을 넣는다  return address;  } |

[그림 ‑] 함수 Node\* outNode의 코드

1. **void delNode(Node \*address)** : 입력받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수

|  |
| --- |
| void delNode(Node \*address) // 입력받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수  {  free(address);  } |

[그림 2‑10] 함수 void delNode의 코드

1. **void FCFS(process\* ps, int cnt)** : 직접적으로 FCFS 스케줄링을 구현하는 함수이다. 매개변수로는 노드의 멤버 구조체 data를 받아오고, int형 입력된 구조체 배열의 수를 받아온다. 맨 앞의 노드를 가리키는 head 노드를 선언하고 head.next를 NULL로 설정한다.  
    int flag 변수는 while문의 신호를 진행 신호를 표현한다.  
    type 이 0일 경우 입력된 프로세스의 카운트를 1증가하고 현재 프로세스 진행시간을 도착시간으로 입력하고 대기 큐에 프로세스를 입력하는 것처럼 리스트에 노드를 생성하고 연결한다. type이 1인 경우 프로세스가 1회 처리됨을 의미하므로 처리된 프로세스만큼 전체 프로세스 실행 시간을 증가하고 head.next가 가리키고있는 노드의 data 값을 출력하고 outNode 함수를 이용하여 리스트에서 제외하고 delNode 함수를 이용하여 동적 할당을 해제한다. 마지막으로 type이 -1인경우 모든 프로세스 입력이 끝난 상태이기 때문에 모든 프로세스가 처리될 때까지 while문으로 FCFS 스케줄링을 진행한다. head.next가 다시 NULL을 가리키면 리스트에 노드가 없음을 의미하기 때문에 if문으로 head.next가 0일경우 flag를 0으로 설정하고 break문으로 빠져 나간다.

|  |
| --- |
| void FCFS(process\* ps, int cnt) // 선입선출 스케쥴링을 실행하는 함수  {  int i = 0, ps\_cnt = 0;  int flag = 1;  Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성  head->next = NULL; // head.next 의 값을 NULL로 초기화  process \*p1;  ps\_cnt = inputArr(ps);  p1 = &(head->data);  while (flag)  {  if (ps[i].type == 0)  {  process\_count++;  ps[i].arr\_time = time;  putNode(head, makeNode(ps[i]));  }  else if (ps[i].type == 1)  //type == 1 이면 FCFS 스케줄러를 1회 실행 시킨다.  {  Node \* deleting\_one = outNode(head);  // 리스트에서 뺄 노드의 주소를 담아두는 변수  time += deleting\_one->data.com\_time;  if (deleting\_one != NULL)  // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건  {  print\_ps(&(deleting\_one->data));  // 완료된 프로세스의 데이터값을 출력하는 함수  }  }  else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가 없을때까지 선입선출 스케줄링을 실행한다.  {  ;  while (1)  {  if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.  {  flag = 0;  break;  }  Node \* deleting\_one = outNode(head);  time += deleting\_one->data.com\_time;  if (deleting\_one != NULL) // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 우선순위 스케줄러를 실행한다  {  print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수  free(deleting\_one); // 출력한 데이터의 노드의 동적 메모리 할당 해제  }  }  }  i++;  }  } |

## FCFS의 소스코드

#include<stdio.h>

#include<stdlib.h>

#define SIZE 100

int time = 0; // 전체 프로세스 진행시간

int process\_count = 0; // 입력된 프로세스 개수

double normalized\_turn\_around\_time\_average = 0; // 정규화된 반환 시간의 평균

typedef struct process { //노드에 들어갈 데이터 구조체 정의

int type, id, com\_time, arr\_time, turn\_time;

double nta\_time;

}process;

typedef struct Node { //노드의 구조체 정의

process data;

struct Node \*next;

}Node;

void FCFS(process\* ps, int cnt); // 선입선출 스케쥴링을 실행하는 함수

int inputArr(process\* ps); // input.txt 로부터 데이터를 불러와 노드의 데이터에 넣는 함수

void printArr(process\* ps, int cnt); // input.txt에서 불러와 노드 구조체에 입력한 데이터를 출력하는 함수

void print\_ps(process \*ending\_ps); // 완료된 프로세스를 출력하는 함수

Node\* makeNode(process data); // 노드를 생성하는 함수

void putNode(Node\*head, Node\* node); // 리스트에 노드를 추가하는 함수

Node\* outNode(Node\* head); // 노드를 리스트에서 빼는 함수

void delNode(Node \*address); // 노드에 동적할당된 메모리를 해제하는 함수

int main(void)

{

process p1[SIZE];

int ps\_cnt = 0;

ps\_cnt = inputArr(p1);

printf("\n |=================================|\n");

printf(" |====== input.txt 입력 값 ======|\n");

printf(" |=================================|\n");

printf(" | Type| Proces\_ID| Computing\_Time|\n");

printf(" |=================================|\n");

printArr(p1, ps\_cnt);

printf(" |=================================|\n");

printf("\n\n\n");

printf(" |===============================================================================|\n");

printf(" |=============================== 스케줄링 처리 후 ==============================|\n");

printf(" |===============================================================================|\n");

printf(" | Proces\_ID| Computing\_Time| Arrival\_time| Turn\_Around\_time| Normalized TA time|\n");

printf(" |===============================================================================|\n");

FCFS(p1, ps\_cnt);

printf(" |===============================================================================|\n");

printf(" Normalized\_turn\_around\_time\_average : %.2lf\n", normalized\_turn\_around\_time\_average / process\_count);

getchar();

return 0;

}

void FCFS(process\* ps, int cnt) // 선입선출 스케쥴링을 실행하는 함수

{

int i = 0, ps\_cnt = 0;

int flag = 1;

Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성

head->next = NULL; // head.next 의 값을 NULL로 초기화

process \*p1;

ps\_cnt = inputArr(ps);

p1 = &(head->data);

while (flag)

{

if (ps[i].type == 0)

{

process\_count++;

ps[i].arr\_time = time;

putNode(head, makeNode(ps[i]));

}

else if (ps[i].type == 1) //type == 1 이면 FCFS 스케줄러를 1회 실행 시킨다.

{

Node \* deleting\_one = outNode(head); // 리스트에서 빼줄 노드의 주소를 담아두는 변수

time += deleting\_one->data.com\_time;

if (deleting\_one != NULL) // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

}

}

else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가 없을때까지 선입선출 스케줄링을 실행한다.

{

while (1)

{

if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.

{

flag = 0;

break;

}

Node \* deleting\_one = outNode(head);

time += deleting\_one->data.com\_time;

if (deleting\_one != NULL) // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 우선순위 스케줄러를 실행한다

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

delNode(deleting\_one); // 출력한 데이터의 노드의 동적 메모리 할당 해제

}

}

}

i++;

}

}

void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수

{

int i = 0;

for (i = 0; i <= cnt; i++)

{

if (ps[i].type == 0 || ps[i].type == 1)

{

printf(" |%5d|%11d|%15d|\n", ps[i].type, ps[i].id, ps[i].com\_time);

}

else if (ps[i].type == -1)

{

printf(" |%5d| | |\n", ps[i].type);

}

}

}

int inputArr(process\* ps) // input.txt에서 불러와 노드 구조체에 입력한 데이터를 출력하는 함수

{

int i = 0, cnt = 0;

FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기

if (fp == NULL)

{

printf("파일에 아무것도 없습니다.");

return -1;

}

else

{

for (i = 0; i < SIZE; i++)

{

fscanf(fp, "%d,%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.

if (ps[i].type == -1) // type = -1 이면 입력을 중단한다

{

break;

}

cnt++;

}

}

fclose(fp);

return cnt;

}

void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수

{

ending\_ps->turn\_time = time - ending\_ps->arr\_time; // 반환시간 = 종료시간 - 도착시간

ending\_ps->nta\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time; // 정규화된 반환시간 = 반환시간 / 실행시간

normalized\_turn\_around\_time\_average += ending\_ps->nta\_time;

printf(" |%11d|%15d|%13d|%17d|%19.2lf|\n", ending\_ps->id, ending\_ps->com\_time, ending\_ps->arr\_time, ending\_ps->turn\_time, ending\_ps->nta\_time);

}

Node\* makeNode(process data) // 노드를 생성하는 함수

{

Node \*newNode = (Node\*)malloc(sizeof(Node));

newNode->next = NULL;

newNode->data = data;

return newNode;

}

void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수

{

if ((head->next) == NULL) // head->next 가 NULL 을 가지고 있으면 head에 node를 연결한다

{

head->next = node;

}

else

{

Node\* finding\_lastone = head->next; // 마지막 노드의 주소를 담아둘 포인터 변수

while (finding\_lastone->next != NULL) // head->next 가 NULL 이 아니면 NULL이 될때까지 반복한다

{

finding\_lastone = finding\_lastone->next; // NULL이 아니면 포인터 변수 finding\_lastone에 finding\_lastone->next 값 을 넣는다

}

finding\_lastone->next = node; // finding\_lastone->next는 마지막 노드의 주소를 가지고 있다.

}

}

Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수

{

Node\* address; // 리스트에서 뺄 노드의 주소를 담아둘 포인터 변수

address = head->next;

if (head->next == NULL) // head->next 가 NULL 이면 아무것도 안하고 NULL을 반환한다

{

return NULL;

}

else

{

head->next = head->next->next; //head->next 가 NULL이 아니면 head->next를 연결되있는 노드의 next 값을 받아서 연결한다

}

address->next = NULL; // 리스트에서 빼낸 노드의 next 값에 NULL을 넣는다

return address;

}

void delNode(Node \*address) // 노드에 동적할당된 메모리를 해제하는 함수

{

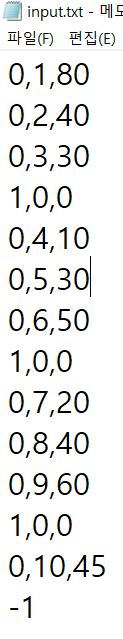
free(address);

}

## FCFS 예제 결과 및 설명

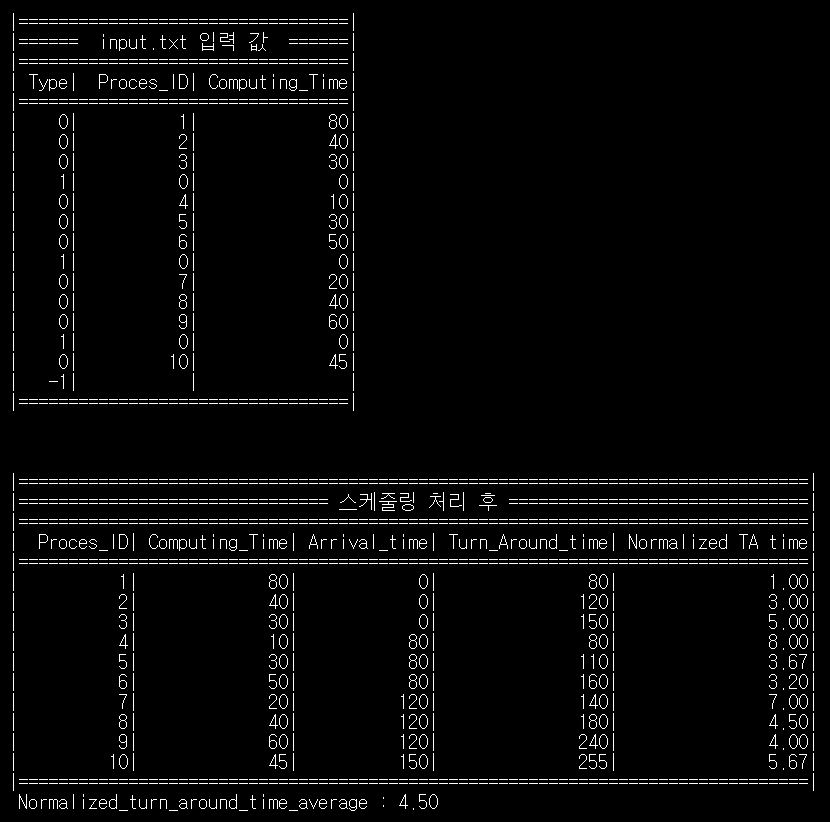
### FCFS 입력 예제와 결과값

* **입력 예제**



[그림 ‑] FCFS의 예제 input.txt

* 입력 예제를 이용한 FCFS 결과 값



[그림 ‑] 입력 예제를 이용한 FCFS 출력 값

### FCFS 예제 결과 검증

* FCFS 스케줄링의 예제 결과 과정을 설명하기 위해 한글2018을 이용하였다.   
  첨부파일 [FCFS Scheduling\_2017152044\_김동현.hwp](FCFS%20Scheduling_2017152044_김동현.hwp) 를 보고서와 함께 첨부하였다.

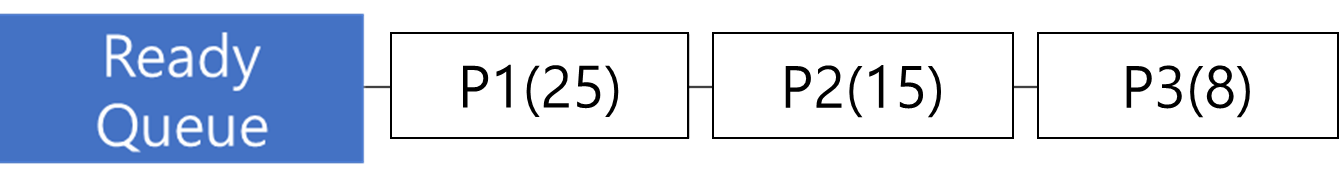
# Priority Queue 스케줄링 (심정수)

## Priority Queue 스케줄링 알고리즘

* 우선순위 큐는 새로운 데이터를 넣을 수 있고, 가장 우선순위가 높은 데이터를 뽑아 낼 수 있는 자료구조로 메모리 안 데이터들을 더욱 효율적으로 다루기 위해 만들어진 데이터 참조 방식이다.

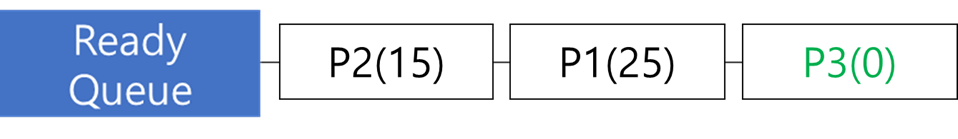
선형 구조로써 양 쪽 끝에서만 데이터를 넣거나 뺄 수 있고, 제일 처음에 들어온 데이터가 제일빨리 나가는 방식이다.

* **[그림 3-1]**을 보면 0초에 프로세스1, 프로세스2, 프로세스3 이 입력된 상태이다. P1은 1번 프로세스를 의미하며 괄호안의 숫자는 프로세스가 완료되기 위해 필요한 priority를 의미한다.



[그림 3‑] Priority queue 입력완료 상태

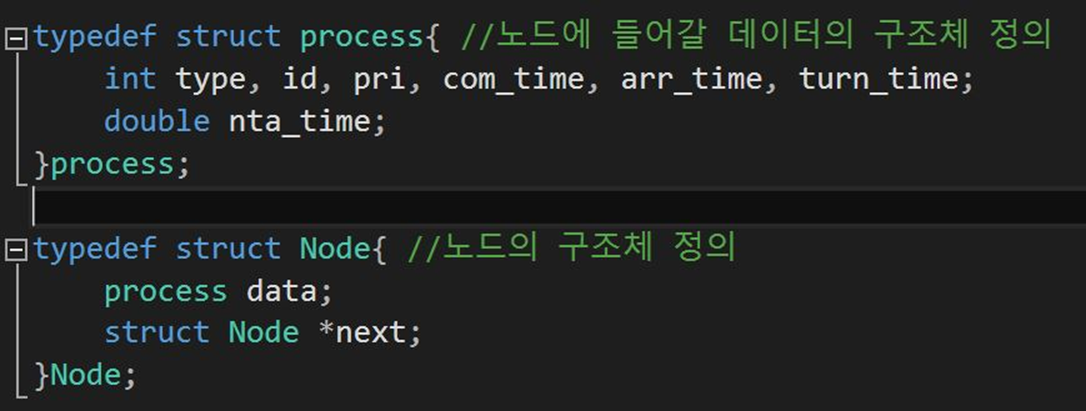
* **[그림 3-2]**를 보면 우선순위가 높은 P3가 출력되면서 대기 큐에서 제거되고 프로세스는 종료된다

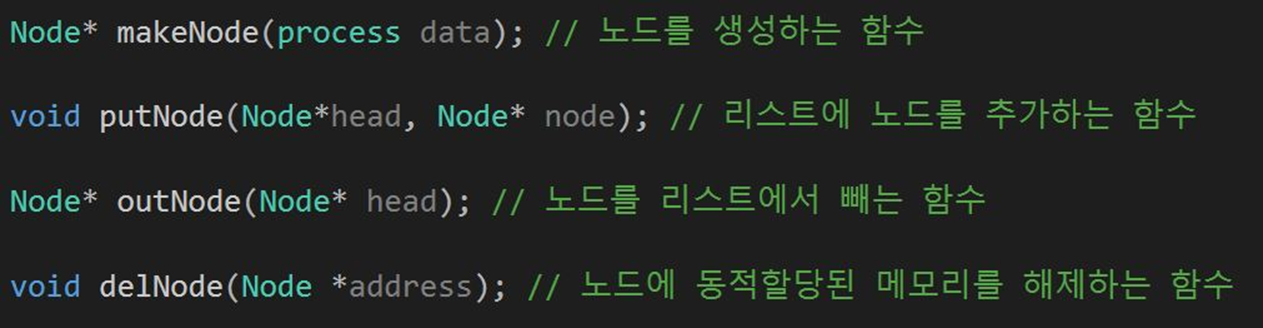


[그림3-2] 우선순위 프로세스를 처리한 상태

## Priority Queue 자료구조

* 사용한 자료구조로는 대기 큐를 구현하기 위해 단일 연결리스트(Singly Linked List)를 사용하였으며, 연결리스트에 들어갈 노드는 다음 노드의 주소 값을 가지는 구조체 포인터 변수 Next를 선언하였고, 노드의 데이터에 들어갈 구조체를 Type, 프로세스 ID, 서비스 시간(Computing Time), 도착 시간(Arrival Time), 반환 시간(Turn Around Time), 정규화 된 반환시간(Normalized Turn Around Time)을 필드로 가지고 있다.  
   head라는 구조체 포인터 변수를 설정하고 가장 앞에 있는 노드의 주소를 가지게 설정해두고 항상 가장 앞에 있는 노드를 가리키게 한다. 노드에 각각 다음 노드를 가리키는 구조체 포인터 변수를 만들고 다음 노드의 주소를 기억하게 한다. 만약 head가 가리키는 주소가 NULL이라면 대기 큐 리스트에는 아무런 프로세스가 존재하지 않음을 의미한다.





[그림 3‑3] 우선순위 스케줄링을 구현하기 위해 사용한 구조체

## Priority Queue 구현 방법

### 라이브러리 및 전역변수

1. **#include<stdio.h>** : 표준 입출력 라이브러리로 FCFS의 기본적인 입출력을 기능을 불러온다.
2. **#include<stdlib.h>** : 노드를 생성하기 위해 동적 메모리를 할당과 해제를 하기 위해 호출한 라이브러리이다.
3. **#define SIZE 100** : 매크로의 값을 100으로 설정하여 input.txt로부터 입력 받는 구조체 배열의 최대 크기를 100으로 설정한다.
4. **int time :** 전체 프로세스의 러닝타임을 체크하기 위해 설정한 변수이다. 전역변수로 선언하였고 0으로 초기화 하였다. 서비스 시간이 증가되거나 도착시간을 할당하기 위해 사용했다.
5. **int process\_count** : 입력된 프로세스의 개수를 가지는 전역 변수이다. 정규화 된 반환시간의 평균을 구할 때 사용한다.
6. **double normalized\_turn\_around\_time\_average** : 정규화 된 반환시간의 평균의 값을 기억하는 전역변수이다. 정규화 된 반환시간을 모두 더하고 위의 process\_count의 수 만큼 나눠준다.

![개체이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTAAAJKSAAIAAAADMTAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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[그림 ‑] 우선순위 스케줄링을 구현하기 위해 사용한 라이브러리 및 전역변수

### 메인 함수

1. **int ps\_cnt** : input.txt로부터 데이터를 받기위해 사용한 inputArr 함수로부터 데이터의 개수를 반환 받아 기억해두기 위한 변수이다.
2. **process p1[SIZE]** : input.txt로부터 inputArr 함수를 이용해 배열로 값을 저장하기 위한 구조체 배열 변수이다.

### 함수 설명

* 우선순위 스케줄링을 구현하기 위해 pri\_process 함수를 직접적으로 선언하고 설정하였으며 하위의 함수들을 설정하여 main함수에서 스케줄링을 시행하는 것이 아닌 pri\_process 함수 내에서 스케줄링을 완료하도록 설정하였다. 우선순위를 비교하고 정렬하기 위한 bubbleSort 함수를 구현하였고 노드의 데이터 값을 바꾸기 위한 swap 함수를 구현하였다. 대기 큐를 구현하기 위해 단일 연결리스트를 사용하였고 프로세스를 구현하기 위해 노드 형태를 사용하였다. 노드의 데이터 값은 inputArr 함수를 이용해 input.txt 파일에서 불러와서 구조체 배열에 입력하였다. 프로세스를 생성하는 과정은 makeNode 함수로 구현하였고 대기 큐에 입력하는 것은 putNode로 구현했다. 완료된 프로세스를 대기 큐에서 제외하는 것은 outNode와 delNode로 구현하였다. 마지막으로 완료된 프로세스의 데이터 값을 출력하기 위한 print\_ps 함수를 구현했다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADODkAAJKSAAIAAAADODkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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GlsVHeS1ic/myk1r+Hrxr/XILa7t7N4nDbl+xRDOFJ6hc1z1Phmlt5RJBI8Ug6MjEEfiKJwUk11FOmpRaW4ijMgHvXX3Wm3NrcvD5NxNsOPMh8PwsrfQ55rjqKJwcrahODk9/wOh1pNmjRo+n3Ecwn3G5k05LYFccL8vXnmqOhQ2k17ILzy2YQsYI5X2JJJ/CrHI4/EVmUUKFouNwULR5bnQrDrxuQp0SPG7BVtNjVOvQttGB75/Gs7W4rODVHTTWUxBVJCPuVWxyA3cZ71n0URhZ3CMLO50lq2s3nh9ru0vtUnuEuRF5cUzsAm3OcDnrioY/+EoW4hllt9UuPJkWRUmSVlJByMisGil7PV7fcL2fp9xNeNK99O1zGY5mkZnQqRtJOSMHpUNFFaJWVjUvRavdxWkdsDC8MRJRZbeOTbk5OCyk1qaRf3GoXmoS3bh3XTJUGECgADgYAArnaKiVOLTM5U4vY2tdRZLjTEeRYlNhCC7g4Xg9cAn9KhtLS0gvYJn1ezKxyKxASbOAc/8APOs6SaSbb5sjybFCruYnaB0A9qZQoNK1wUHy8tza1aKyv9XurqHVrRUmkLqGSbIB9f3dVdPu00fWFnUpeIisuY2KBtykcFlzxn07Vn0UKCUeW+mw+RW5XsX/ADtJ/wCfK9/8DE/+NVoW5jPhHVjAjpH58O1XYMR16kAZ/KsCnrPKsLQrK4icgsgY7WI6ZHeiULrTy/MUoX2NTw9ZveXVx5R5igMm0Wi3BbBAwFbjPNav2W5/59L3/wAJ2H/GuTopSpuTvf8AAUqbbvf8DS1/adYkaOzks0ZV2xSQiIj5QCdo4GSCazaKKuK5UkaRVkkWrHUJtPkcxBHjlXZLFIMpIvoR/Uc1bg1N5p7W1hghtbf7QjtHCG+ds9SWJJ/PFZVFDgm7kygmdfrP/Hh4h/6/0/rXPXGpebpkFjBCIYYzvkw2TLJ03H8OAO1VBPKsDQrK4icgsgY7WI6EimVnTpcqs/60sTCnyrU6fTdR/tKa+mkhVLgaZKs0qn/WkYwxHY46+tUfEf3tL/7B0P8AI1jU+SaWbb50jybFCLuYnao6Ae3tTVNKV0EafLK6ND+2mk8pryytLuaIACaZW3EDpuwwDY9wataNdTXl9qdxcyGSV7GYsx+g/L6VhU+OaSEsYZHj3KVbaxGQeoPtTlTTTSG6atZD7ONZb6COQZV5FVh6gmtXV/D97FrF1HY6Zdm2WQiMpC7DHse9YlFNp3umNqXNdMs3OnXtmge7s7iBScBpYmUE+nIqtRRVK/UpX6hXSTaaYrGwey0H7aJrZZJJdszfMSf7rADtXN0VMouVrMmUW2rM6eOzlXQdVkudIfTikaFSvnIH+ccEMxBrmKKKIRcb3YQi43uza0n/AJFvW/8Ach/9DrFp6TSxxvHHI6pJjeqsQGx0yO9MpxjZt9xxjZt9/wDJBRRRVFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/Z)

[그림 ‑] 우선순위 스케줄링을 구현하기 위해 사용한 함수 리스트

1. **int inputArr(process\* ps)** : input.txt로부터 값을 불러와 구조체 배열의 주소 구조체 포인터 변수로 받아와 구조체 배열에 입력한다. 텍스트 파일에 아무것도 없다면 “파일에 아무것도 없습니다.”를 출력하고 -1을 반환한다. for문을 사용하여 구조체 배열에 매개변수 ps를 구조체 배열에 type, id, pri, com\_time을 순서대로 대입하고 process.reamain 멤버는 처음 입력된 서비스 시간으로 초기화한다. type=-1이라면 마지막으로 입력된 배열의 개수를 1증가하고 입력을 중단한다. 마지막으로 변수 count의 값을 반환한다. 함수에서 선언 된 count 변수는 입력된 배열의 개수의 값을 저장하는 변수이다.

|  |
| --- |
| int inputArr(process\* ps) //input.txt를 불러와 구조체 배열에 입력하는 함수  {  int i = 0, cnt = 0;  FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기  if (fp == NULL)  {  printf("파일에 아무것도 없습니다.");  return -1;  }  else  {  for (i = 0; i < SIZE; i++)  {  fscanf(fp, "%d,%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].pri, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.  if (ps[i].type == -1)  {  break;  }  cnt++;  }  }  fclose(fp);  return cnt;  } |

[그림 ‑] 함수 int inputArr의 코드

1. **void printArr(process\* ps, int cnt)** : input.txt 의 파일로부터 오류없이 정확히 구조체 배열에 들어갔는지 확인하기 위해 구조체 배열의 입력된 값을 출력하는 함수이다. 매개변수로는 inputArr로부터 값을 저장한 구조체 배열과 입력 받은 배열의 개수를 의미하는 int형 cnt 변수이다.

|  |
| --- |
| void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수  {  int i = 0;  for (i = 0; i <= cnt; i++)  {  if (ps[i].type == 0 || ps[i].type == 1)  {  printf(" |%5d|%11d|%10d|%15d|\n", ps[i].type, ps[i].id, ps[i].pri, ps[i].com\_time);  }  else if (ps[i].type == -1)  {  printf(" |%5d| | | |\n", ps[i].type);  }  }  } |

[그림 3‑4] 함수 void printArr의 코드

1. **void print\_ps(process \*ending\_ps)** : 서비스 시간을 모두 수행한 프로세스를 출력하는 함수이다. 구조체 멤버 remain 의 값이 0이되면 프로세스가 완료되었다고 가정하고 Process ID, 우선순위(Priority), 실행시간(Computing Time), 도착시간(Arrival Time), 반환시간(Turnaround Time) ,정규화 된 반환시간(Normalized Turnaround Time)을 출력한다. 반환시간은 종료된 시간 – 도착 시간이며 정규화 된 반환시간은 반환시간을 실행시간으로 나눈다. normalized\_turn\_around\_time\_average 변수에 정규화 된 반환시간을 더해준다.

|  |
| --- |
| void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수  {  ending\_ps->turn\_time = time - ending\_ps->arr\_time; // 반환시간 = 종료시간 - 도착시간  ending\_ps->nta\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time; // 정규화된 반환시간 = 반환시간 / 실행시간  normalized\_turn\_around\_time\_average += ending\_ps->nta\_time;  printf(" |%11d|%10d|%15d|%17d|%20.2lf|\n", ending\_ps->id, ending\_ps->pri , ending\_ps->com\_time, ending\_ps->turn\_time, ending\_ps->nta\_time); // Process ID, 실행시간, 반환시간을 출력하는 함수  } |

[그림 ‑] 함수 void print\_ps의 코드

1. **Node\* makeNode(process data)** : 대기 큐에 프로세스 역할을 할 노드를 생성하는 함수이다. 매개변수로 구조체 배열의 값을 불러와서 구조체 포인터로 반환한다 구조체 크기만큼 메모리를 동적 할당하고 노드의 next값을 NULL로 설정하고 매개변수로 받아온 값을 Node.data 멤버에 대입하고 생성된 노드의 구조체 포인트 형태로 반환한다..

|  |
| --- |
| Node\* makeNode(process data) // 노드를 생성하는 함수  {  Node \*newNode = (Node\*)malloc(sizeof(Node));  newNode->next = NULL;  newNode->data = data;  return newNode;  } |

[그림 ‑] 함수 Node\* makeNode의 코드

1. **void putNode(Node\*head, Node\* node)** : 프로세스를 대기 큐에 넣는 것을 구현하기 위해 프로세스 역할을 하는 노드를 리스트에 연결하는 함수이다. 처음 노드를 가리키는 head를 매개변수로 받아오고 연결시킬 노드를 구조체 포인터 node를 매개변수로 받아온다. head->next가 NULL을 가리키면 리스트에 노드가 없는 상태이기 때문에 head->next에 연결시킬 노드의 주소를 대입한다. 만약 head->next 가 NULL이 아니면 마지막 노드의 주소를 찾아 마지막 노드의 주소를 받을 변수를 포인터 변수 finding\_lastone을 선언하고 while을 이용해 마지막 노드의 next 멤버에 매개변수로 받은 node의 주소 값을 넣고 리스트를 연결한다

|  |
| --- |
| void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수  {  if ((head->next) == NULL) // head->next 가 NULL 을 가지고 있으면 head에 node를 연결한다  {  head->next = node;  }  else  {  Node\* finding\_lastone = head->next; // 마지막 노드의 주소를 담아둘 포인터 변수  while (finding\_lastone->next != NULL) // head->next 가 NULL 이 아니면 NULL이 될때까지 반복한다  {  finding\_lastone = finding\_lastone->next; // NULL이 아니면 포인터 변수 finding\_lastone에 finding\_lastone->next 값 을 넣는다  }  finding\_lastone->next = node; // finding\_lastone->next는 마지막 노드의 주소를 가지고 있다.  }  } |

[그림 ‑] void putNode의 함수코드

1. **Node\* outNode(Node\* head)** : 대기 큐에서 프로세스가 완료되어 대기 큐에서 제외하는 것을 구현하기 위한 함수이다. 리스트에서 노드를 제외하는 기능을 하며 제외하기 위한 노드의 주소 값을 기억하기 위한 구조체 포인터 변수 address를 선언하고 그 주소를 반환한다. head.next 가 NULL을 가리키면 리스트에 노드가 없는 상태이기 때문에 아무런 실행을 하지 않고 NULL을 반환한다. 만약 NULL이 아니면 리스트에 노드가 남아있는 상태기 제외된 노드가 빠지고 비어 있는 next 값을 연결한다.

|  |
| --- |
| Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수  {  Node\* address; // 리스트에서 뺄 노드의 주소를 담아둘 포인터 변수  address = head->next;  if (head->next == NULL) // head->next 가 NULL 이면 아무것도 안하고 NULL을 반환한다  {  return NULL;  }  else  {  head->next = head->next->next; //head->next 가 NULL이 아니면 head->next를 연결되있는 노드의 next 값을 받아서 연결한다  }  address->next = NULL; // 리스트에서 빼낸 노드의 next 값에 NULL을 넣는다  return address;  } |

[그림 ‑] 함수 Node\* outNode의 코드

1. **void delNode(Node \*address)** : 입력받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수

|  |
| --- |
| void delNode(Node \*address) // 입력받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수  {  free(address);  } |

[그림 ‑] 함수 void delNode의 코드

1. **void swap(Node \*a, Node \*b)** : 매개변수로 받은 구조체 포인터 Node의 data 값을 서로 교환하는 함수이다. 매개변수로 받은 구조체 포인터의 data의 형태는 구조체 process이기 때문에 임시로 저장하기 위한 process temp를 생성하고 생성함과 동시에 매개변수 a->data를 대입한다.

|  |
| --- |
| void swap(Node \*a, Node \*b) // 입력 받은 노드의 데이터를 바꾸는 함수  {  process temp = a->data;  a->data = b->data;  b->data = temp;  } |

[그림 ‑] 함수 void swap의 코드

1. **void bubbleSort(Node \*head)** : 우선순위의 숫자가 낮은 순서대로 정렬하는 함수이다. 우선순위를 비교할 target\_node 구조체 포인터를 선언하고 매개변수로 받은 head 구조체 포인터를 대입한다. 임시 구조체를 저장하기 위한 temp\_node 구조체 포인터를 선언하고 NULL로 초기화한다. head가 NULL이면 노드가 존재하지 않기 때문에 0을 반환하고 함수 기능을 종료한다. 우선순위를 비교하기 위해 최소 1회 이상을 실행해야 하므로 do while문을 사용하였고 정렬이 완료되면 0으로 초기화 된 flag 값을 그대로 반환하여 do while문을 종료한다. do while문은 target\_node를 head로 설정하여 리스트에 연결된 처음 노드부터 target\_node를 target\_node.next를 대입하여 다음 노드로 한번씩 이동하여 target\_node.next가 NULL을 가리키는 마지막 노드까지 비교하며 정렬을 시행한다. 만약 비교하는 현재 노드가 다음 노드 보다 우선순위의 숫자가 낮으면 swap 함수를 이용하여 두 노드의 데이터 값을 바꿔준다. 마지막 노드이면 temp\_node는 NULL을 가지므로 do while문의 중첩 while은 시행하지 않고 flag가 0으로 초기화하고 do while을 빠져나간다.

|  |
| --- |
| void bubbleSort(Node \*head) //우선순위를 비교하고 우선순위가 낮은 노드를 정렬하는 함수  {  int flag;  Node \*target\_node;  Node \*temp\_node = NULL;  if (head == NULL)  {  return 0;  }  do  {  flag = 0;  target\_node = head; // 비교할 노드를 head로 초기화한다  while (target\_node->next != temp\_node) // 마지막 노드까지 비교한다  {  if (target\_node->data.pri > target\_node->next->data.pri) // 우선순위가 더 낮은 것을 찾아서 정렬한다  {  swap(target\_node, target\_node->next); // 주소는 그대로지만 서로의 데이터 값만 서로 바꾼다  flag = 1;  }  target\_node = target\_node->next;  }  temp\_node = target\_node;  } while (flag);  } |

[그림 3‑11] 함수 void bubbleSort의 코드

1. **void pri\_process(process\* ps, int cnt)** : 우선순위 스케줄링을 시행하는 함수이다. 맨 앞의 프로세스 역할을 하는 노드를 가리키는 구조체 포인터 head를 생성하고 NULL로 초기화한다. inputArr 함수를 이용해 input.txt의 값을 구조체 배열에 입력하고 배열의 개수를 int형 변수 ps\_cnt에 반환한다. 우선순위 스케줄링을 위한 준비가 모두 완료되면 type에 따라 동작을 구분한다.  
    type 이 0일 경우 입력을 나타내므로 , makeNode와 putNode를 이용하여 프로세스 생성 및 대기 큐에 입력을 구현하고 프로세스의 개수를 확인하는 process\_count의 값을 1만큼 증가시키고 전역 변수로 설정된 time변수를 도착시간으로 입력한다. 그리고 마지막으로 bubbleSort 함수를 이용하여 우선순위의 숫자가 낮은 순서로 정렬한다.  
   type 이 1인 경우 프로세스가 1회 실행 되었음을 의미한다. 맨 앞의 프로세스를 스케줄링하기 위해 프로세스 역할을 하는 노드의 주소를 기억해둘 deleting\_one 구조체 포인터를 생성하고 리스트에서 뺄 노드의 주소 값을 대입한다. 그리고 완료된 프로세스의 실행 시간만큼 전체 프로세스 진행시간을 증가시킨다. 프로세스가 완료되었으므로 print\_ps 함수를 이용하여 완료된 노드의 데이터 값을 출력한다.  
    type이 -1인 경우 모든 입력이 완료된 상태를 나타내므로 대기 큐에 프로세스가 모두 완료될 때까지 시행한다. 스케줄링을 반복하기 위해 while문을 사용하고 head->next의 값이 NULL이면 대기 큐에 프로세스가 없음을 의미하기 때문 while문을 중단하기 위해 flag를 0으로 변경하고 break로 반복문을 종료한다.

|  |
| --- |
| void pri\_process(process\* ps, int cnt) // 우선순위 스케쥴링을 진행하는 함수  {  int i =0, ps\_cnt = 0;  int flag = 1;  Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성  head->next = NULL; // head.next 의 값을 NULL로 초기화  ps\_cnt = inputArr(ps);  while(flag)  {  if (ps[i].type == 0)  {  process\_count++;  ps[i].arr\_time = time;  putNode(head, makeNode(ps[i]));  bubbleSort(head);  }  else if (ps[i].type == 1) //type == 1 이면 우선순위 스케줄러를 1회 실행 시킨다.  {  Node \* deleting\_one = outNode(head); // 리스트에서 빼줄 노드의 주소를 담아두는 변수  time += deleting\_one->data.com\_time;  if (deleting\_one != NULL) // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건  {  print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수  }  }  else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가 없을때까지 우선순위 스케줄러 실행한다.  {  while (flag)  {  if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.  {  flag = 0;  break;  }  Node \* deleting\_one = outNode(head);  time += deleting\_one->data.com\_time;  if (deleting\_one != NULL) // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 우선순위 스케줄러를 실행한다  {  print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수  free(deleting\_one); // 출력한 데이터의 노드의 동적 메모리 할당 해제  }  }  }  i++;  }  } |

[그림 3‑12] 함수 void pri\_process의 코드

## Priority Queue 소스코드

#include<stdio.h>

#include<stdlib.h>

#define SIZE 100

int time = 0; // 전체 프로세스 진행시간

int process\_count = 0; // 입력된 프로세스 갯수

double normalized\_turn\_around\_time\_average = 0; // 정규화 된 반환 시간의 평균

typedef struct process{ //노드에 들어갈 데이터의 구조체 정의

int type, id, pri, com\_time, arr\_time, turn\_time; // Type, Process ID, 우선순위, 실행시간, 도착시간, 반환시간

double nta\_time; // 정규화 된 반환시간

}process;

typedef struct Node{ //노드의 구조체 정의

process data;

struct Node \*next;

}Node;

void pri\_process(process\* ps, int cnt); // 우선순위 스케쥴링을 진행하는 함수

void swap(Node \*a, Node \*b); // 입력 받은 노드의 데이터를 바꾸는 함수

void bubbleSort(Node \*head); //우선순위를 비교하고 우선순위가 낮은 노드를 정렬하는 함수

int inputArr(process\* ps); // input.txt 로부터 데이터를 불러와 노드의 데이터에 넣는 함수

void printArr(process\* ps, int cnt); // 입력받은 input.txt를 출력하는 함수

void print\_ps(process \*ending\_ps); // 완료된 프로세스를 출력하는 함수

Node\* makeNode(process data); // 노드를 생성하는 함수

void putNode(Node\*head, Node\* node); // 리스트에 노드를 추가하는 함수

Node\* outNode(Node\* head); // 노드를 리스트에서 빼는 함수

void delNode(Node \*address); // 노드에 동적할당된 메모리를 해제하는 함수

int main(void)

{

process p1[SIZE];

int ps\_cnt = 0;

ps\_cnt = inputArr(p1);

printf("\n |============================================|\n");

printf(" |=========== input.txt 입력 값 ============|\n");

printf(" |============================================|\n");

printf(" | Type| Proces\_ID| Priority| Computing\_Time|\n");

printf(" |============================================|\n");

printArr(p1, ps\_cnt);

printf(" |============================================|\n");

printf("\n\n\n");

printf(" |=============================================================================|\n");

printf(" |============================= 스케줄링 처리 후 ==============================|\n");

printf(" |=============================================================================|\n");

printf(" | Proces\_ID| Priority| Computing\_Time| Turn\_Around\_time| Normalized TA time|\n");

printf(" |=============================================================================|\n");

pri\_process(p1, ps\_cnt);

printf(" |=============================================================================|\n");

printf(" Normalized\_turn\_around\_time\_average : %.2lf\n", normalized\_turn\_around\_time\_average / process\_count);

getchar();

return 0;

}

void pri\_process(process\* ps, int cnt) // 우선순위 스케쥴링을 진행하는 함수

{

int i =0, ps\_cnt = 0;

int flag = 1;

Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성

head->next = NULL; // head.next 의 값을 NULL로 초기화

ps\_cnt = inputArr(ps);

while(flag)

{

if (ps[i].type == 0)

{

process\_count++;

ps[i].arr\_time = time;

putNode(head, makeNode(ps[i]));

bubbleSort(head);

}

else if (ps[i].type == 1) //type == 1 이면 우선순위 스케줄러를 1회 실행 시킨다.

{

Node \* deleting\_one = outNode(head); // 리스트에서 빼줄 노드의 주소를 담아두는 변수

time += deleting\_one->data.com\_time;

if (deleting\_one != NULL) // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

}

}

else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가 없을때까지 우선순위 스케줄러 실행한다.

{

while (flag)

{

if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.

{

flag = 0;

break;

}

Node \* deleting\_one = outNode(head);

time += deleting\_one->data.com\_time;

if (deleting\_one != NULL) // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 우선순위 스케줄러를 실행한다

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

free(deleting\_one); // 출력한 데이터의 노드의 동적 메모리 할당 해제

}

}

}

i++;

}

}

void swap(Node \*a, Node \*b) // 입력 받은 노드의 데이터를 바꾸는 함수

{

process temp = a->data;

a->data = b->data;

b->data = temp;

}

void bubbleSort(Node \*head) //우선순위를 비교하고 우선순위가 낮은 노드를 정렬하는 함수

{

int flag;

Node \*target\_node;

Node \*temp\_node = NULL;

if (head == NULL)

{

return 0;

}

do

{

flag = 0;

target\_node = head; // 비교할 노드를 head로 초기화한다

while (target\_node->next != temp\_node) // 마지막 노드까지 비교한다

{

if (target\_node->data.pri > target\_node->next->data.pri) // 우선순위가 더 낮은 것을 찾아서 정렬한다

{

swap(target\_node, target\_node->next); // 주소는 그대로지만 서로의 데이터 값만 서로 바꾼다

flag = 1;

}

target\_node = target\_node->next;

}

temp\_node = target\_node;

} while (flag);

}

int inputArr(process\* ps) //input.txt를 불러와 구조체 배열에 입력하는 함수

{

int i = 0, cnt = 0;

FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기

if (fp == NULL)

{

printf("파일에 아무것도 없습니다.");

return -1;

}

else

{

for (i = 0; i < SIZE; i++)

{

fscanf(fp, "%d,%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].pri, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.

if (ps[i].type == -1)

{

break;

}

cnt++;

}

}

fclose(fp);

return cnt;

}

void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수

{

int i = 0;

for (i = 0; i <= cnt; i++)

{

if (ps[i].type == 0 || ps[i].type == 1)

{

printf(" |%5d|%11d|%10d|%15d|\n", ps[i].type, ps[i].id, ps[i].pri, ps[i].com\_time);

}

else if (ps[i].type == -1)

{

printf(" |%5d| | | |\n", ps[i].type);

}

}

}

void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수

{

ending\_ps->turn\_time = time - ending\_ps->arr\_time; // 반환시간 = 종료시간 - 도착시간

ending\_ps->nta\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time; // 정규화된 반환시간 = 반환시간 / 실행시간

normalized\_turn\_around\_time\_average += ending\_ps->nta\_time;

printf(" |%11d|%10d|%15d|%17d|%20.2lf|\n", ending\_ps->id, ending\_ps->pri , ending\_ps->com\_time, ending\_ps->turn\_time, ending\_ps->nta\_time); // Process ID, 실행시간, 반환시간을 출력하는 함수

}

Node\* makeNode(process data) // 노드를 생성하는 함수

{

Node \*newNode = (Node\*)malloc(sizeof(Node));

newNode->next = NULL;

newNode->data = data;

return newNode;

}

void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수

{

if ((head->next) == NULL) // head->next 가 NULL 을 가지고 있으면 head에 node를 연결한다

{

head->next = node;

}

else

{

Node\* finding\_lastone = head->next; // 마지막 노드의 주소를 담아둘 포인터 변수

while (finding\_lastone->next != NULL) // head->next 가 NULL 이 아니면 NULL이 될때까지 반복한다

{

finding\_lastone = finding\_lastone->next; // NULL이 아니면 포인터 변수 finding\_lastone에 finding\_lastone->next 값 을 넣는다

}

finding\_lastone->next = node; // finding\_lastone->next는 마지막 노드의 주소를 가지고 있다.

}

}

Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수

{

Node\* address; // 리스트에서 뺄 노드의 주소를 담아둘 포인터 변수

address = head->next;

if (head->next == NULL) // head->next 가 NULL 이면 아무것도 안하고 NULL을 반환한다

{

return NULL;

}

else

{

head->next = head->next->next; //head->next 가 NULL이 아니면 head->next를 연결되있는 노드의 next 값을 받아서 연결한다

}

address->next = NULL; // 리스트에서 빼낸 노드의 next 값에 NULL을 넣는다

return address;

}

void delNode(Node \*address) // 노드에 동적할당된 메모리를 해제하는 함수

{

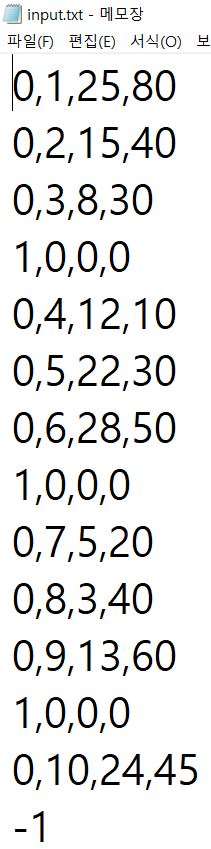
free(address);

}

## Priority Queue 예제 결과 및 설명

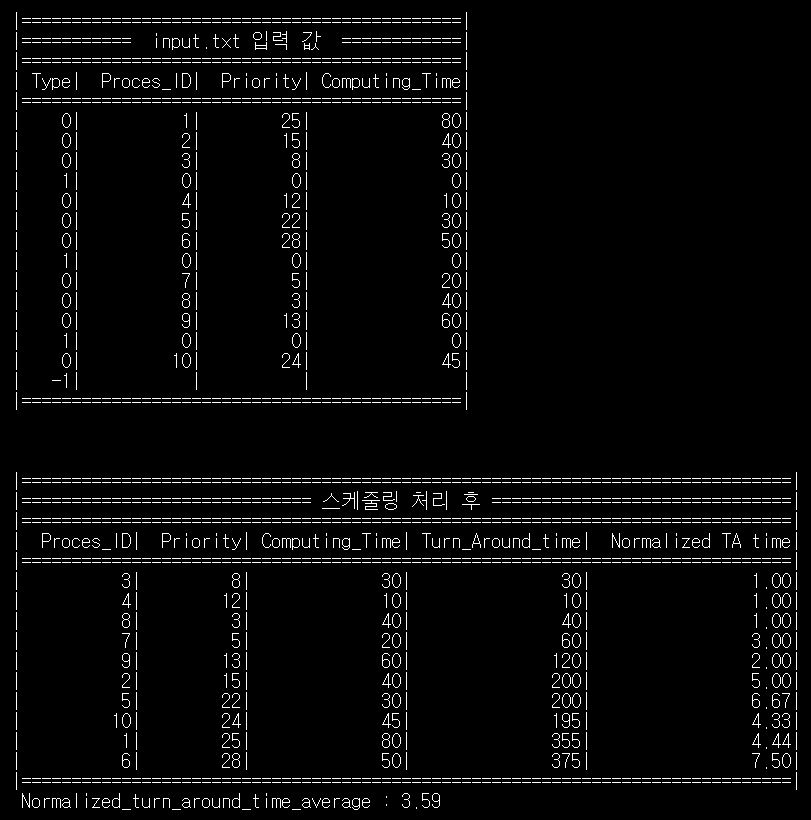
### Priority Queue 입력 예제와 결과값

* **입력 예제**

****

[그림 ‑] Priority Queue의 예제 input.txt

* 입력 예제를 이용한 Priority Queue 결과 값

****

[그림 ‑] 입력 예제를 이용한 Priority Queue 출력 값

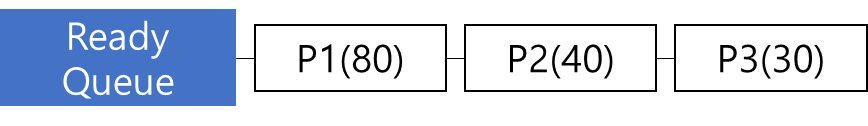
### Priority Queue 예제 결과 검증

* Priority Queue 스케줄링의 예제 결과 과정을 설명하기 위해 MS Office Word를 이용하였다. 첨부파일 [Priority Queue Scheduling\_2017152047\_심정수.docx](Priority%20Queue%20Scheduling_2017152047_심정수.docx)를 보고서와 함께 첨부하였다.

# Round Robin 스케줄링 (이길형)

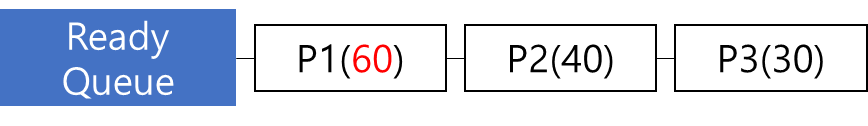
## Round Robin 스케줄링 알고리즘

* 라운드 로빈은 선점형 스케줄링이다. 선점 스케줄링은 하나의 프로세스가 CPU를 할당 받아 실행하고 있을 때 우선 순위가 높은 다른 프로세스가 CPU를 강제로 빼앗아 사용할 수 있는 기법이다. 모든 프로세스에게 CPU 사용 시간을 동일하게 부여할 수 있으며, 빠른 응답시간을 요하는 대화식 시분할 시스템에 적합하며 긴급한 프로세서를 제어할 수 있다.   
   라운드 로빈 스케줄링은 시분할 시스템을 위해 설계된 선점형 스케줄링의 하나로서, 프로세스들 사이에 우선순위를 두지 않고, 순서대로 시간단위로 CPU를 할당하는 방식의 CPU 스케줄링 알고리즘이다. 보통 시간 단위는 10ms ~ 100ms 정도이고 시간 단위동안 수행한 프로세스는 준비 큐의 끝으로 밀려나게 된다. 문맥 전환의 오버헤드가 큰 반면, 응답시간이 짧아지는 장점이 있어 실시간 시스템에 유리하다는 장점이 있다.  
   **[그림 4-1]**을 보면 0초에 프로세스1, 프로세스2, 프로세스3 이 입력된 상태이다. P1은 1번 프로세스를 의미하며 괄호안의 숫자는 프로세스가 완료되기 위해 필요한 서비스 시간을 의미한다. 그리고 시간할당량은 20으로 가정한다.

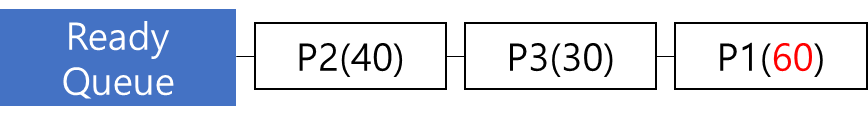


[그림 ‑] Round Robin 입력완료 상태

* **[그림 4-2]**는 시간할당량만큼 서비스시간이 감소되고 인터럽트가 발생한 상태이다. **[그림 4-3]**은 대기 큐의 마지막 순서로 위치시킨 상태이다.



[그림 ‑] 시간할당량만큼 프로세스의 서비스시간이 감소된 상태



[그림 ‑] 처리된 프로세스가 대기 큐의 마지막 순서로 이동한 상태

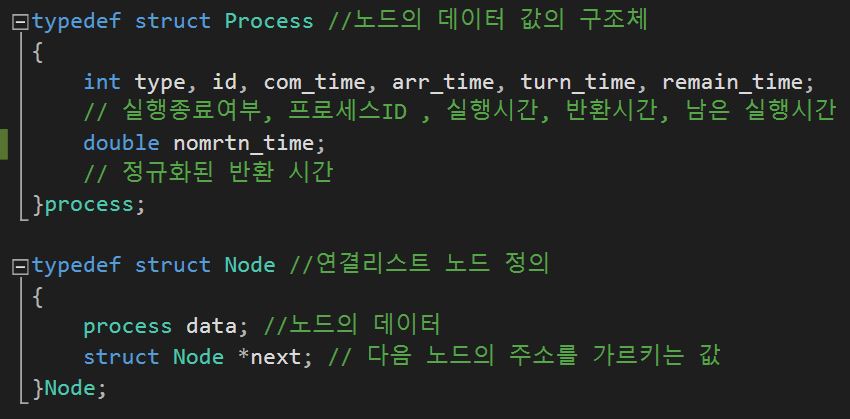
* 이와 같은 과정을 반복하고 [그림 4-4]와 같이 서비스 시간을 모두 처리하게 되면 대기 큐에서 제거되고 프로세스는 완료된다.



[그림 ‑] 서비스 시간을 모두 처리한 상태

## Round Robin 자료구조

* 사용한 자료구조로는 대기 큐를 구현하기 위해 단일 연결리스트(Singly Linked List)를 사용하였으며, 연결리스트에 들어갈 노드는 다음 노드의 주소 값을 가지는 구조체 포인터 변수 Next를 선언하였고, 노드의 데이터에 들어갈 구조체를 Type, 프로세스 ID, 서비스 시간(Computing Time), 도착 시간(Arrival Time), 남아있는 서비스 시간(Remain Time), 반환 시간(Turn Around Time), 정규화 된 반환시간(Normalized Turn Around Time)을 필드로 가지고 있다.  
   head라는 구조체 포인터 변수를 설정하고 가장 앞에 있는 노드의 주소를 가지게 설정해두고 항상 가장 앞에 있는 노드를 가리키게 한다. 노드에 각각 다음 노드를 가리키는 구조체 포인터 변수를 만들고 다음 노드의 주소를 기억하게 한다. 만약 head가 가리키는 주소가 NULL이라면 대기 큐 리스트에는 아무런 프로세스가 존재하지 않음을 의미한다.

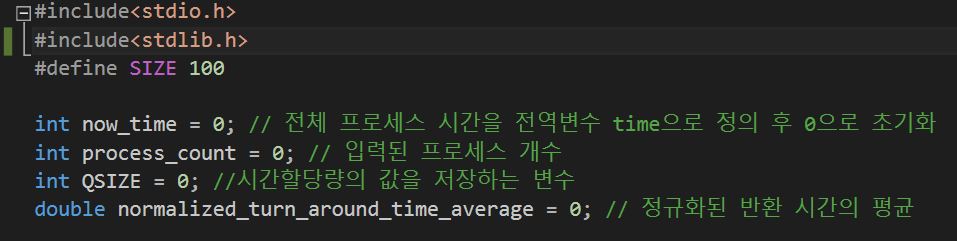


[그림 ‑] Round Robin을 구현하기 위해 사용한 구조체

## Round Robin 구현 방법

### 라이브러리 및 전역 변수

1. **#include<stdio.h>** : 표준 입출력 라이브러리로 FCFS의 기본적인 입출력을 기능을 불러온다.
2. **#include<stdlib.h>** : 노드를 생성하기 위해 동적 메모리를 할당과 해제를 하기 위해 호출한 라이브러리이다.
3. **#define SIZE 100** : 매크로의 값을 100으로 설정하여 input.txt로부터 입력 받는 구조체 배열의 최대 크기를 100으로 설정한다.
4. **int now\_time** : 전역 변수이며, 전체 프로세스의 실행 시간을 의미한다. 처음을 0으로 초기화하고 프로세스 실행될 때 시간할당량만큼 증가한다.
5. **int process\_count** : 전역 변수이며, 전체 프로세스의 개수를 확인하기위해 선언한 변수이다. Type = 0 일 때 프로세스가 입력되면 process\_count의 개수가 한 개씩 증가한다.
6. **int QSIZE** : 전역 변수이며, Round Robin에 필요한 시간할당량(Time Quantum)을 받는 변수이다 초기값은 0으로 선언하고 scanf 로 시간할당량을 입력 받고 QSIZE 변수에 기억한다.
7. **double normalized\_turn\_around\_time\_average** : 전역 변수이며, 정규화 된 반환시간의 평균을 받아 두는 변수이다. 소수점을 나타내기 위해 double형으로 자료형을 선언하였다.



[그림 ‑] Round Robin을 위해 사용한 전역변수

### 메인 함수

1. **int ps\_cnt** : input.txt로부터 데이터를 받기위해 사용한 inputArr 함수로부터 데이터의 개수를 반환 받아 기억해두기 위한 변수이다.
2. **process p1[SIZE]** : input.txt로부터 inputArr 함수를 이용해 배열로 값을 저장하기 위한 구조체 배열 변수이다.

### 함수 설명

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNzYAAJKSAAIAAAADNzYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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suiop0FTlzXFToqm73N7wzfQWovYmuhY3NxGqQXTJuCc8jPbPHPbGa0I4NTgkWWbxjaBIzuYrfNKcD0T+L6d65GiqlSu20xypXbd9zQ166t73W7m4sx+6dhg7du44ALY7ZOT+NTaf4iubCzFq0FreQK26OO6i3iM9yvIxWTRV8keVRZfJFxUWXbnULnU9VF1ePvkdx7BRngAdhVvxX/AMjTff74/wDQRWPRRyJNNdA5EpJrsFT2Pl/2jbedt8vzV37+mMjOfaoKKspq6sdNqHh2G41K4mtNY0WKB5C0afagu0Z4GAMCqt7YXGn6K8I1jTbi380SGC3nDuW6Z6Z6e9YdFYqnJWTf4GahLS7NLTv7D+zt/a39oedu4+zbNuP+Bc5rZu9W8NXt7b3UqaqHgREUKI8EL0zzXKUU5U1J3uwlSUndtnR6re+G9Rubm7C6otzNlgMRhA2OPfFZ2nXumW0DJqGkfbZC2RJ9paPA9MCs2imqaUeW7GqaS5bv7zpLjxFo91HBHP4e3LAmyMfbXG1euOBzUd5JDL4QMltB9nibUSVi3lto8vpk9a5+ip9jFbfmxKlFWt+pqeG5Y4PEllLPIscayZZ3bAHHcmr1z4cE13NKuuaMFd2YZu+cE/SudoqpQblzJ2BwblzJ2NfVrOez0+2ik1SwvIYmYRx2socpu5JPA44rIooqoppWZcVZWJ7P7L9rT+0PO+z87/Ixv6ds8da2oJvCtvcxTINYLRuHAPlYyDmueopShzdRShzdTo7u58LXl5NcyjWA80jSMF8rAJOeKzh/Yn9qHP8AaH2DbxjZ5u7+WKzaKUafKrJsSp26s3f+KT/6jX/kKj/ik/8AqNf+QqwqKXs/Ni9n5s0Yf7G/tOXz/t32HH7vZs83PHXPHr+lXP8Aik/+o1/5CrCopuF+rG4X6s6rR/7J/tCb+x/tv/HlP5n2rZ/d4xt/GuVooojDlbdxxhytu4Vp6f4i1TSrcwWF15URbcV8tW5/EGsyirlFSVmhyjGStJXOm0rxBdahrKyaxeIVjt5VRnCoASvTgDrxVTWP+Re0P/rlJ/6HWJRWXskpJrT+n/mZqklLmRpaZrlzpkMkCxwXNvKctBcx703f3setRapq1zq1wslzsVUXbHFGu1Ix6AVSoq+SPNzW1NOSKfNbU2/FH/H3Y/8AXjD/ACptp4kltdPhs30/T7qOHdsa5gLsMnJ71jUUlTXKoslU1yqL1sat9rn261MH9l6bb7iD5lvb7HGPfNTeMP8Akabr6J/6AKxKKFTSaa8/0/yBU0pXX9bf5HbeG5rSPw/Huu4Um8xt0cuqyW2B2O1c/wAq1or6CGVZEurAspyA+vysPxBUg15nRWMsMpNtvcwlhlJtt7k12MXs/wAyN+8b5kbKnnqD3FQ0UV0pWVjrLujeR/bVn9r8vyPOXzPNxtxnnOeMV2Evl+c/k/8ACHeXuOzf1x2z71wVFZVKXO73MZ0ud3udP4jklbSoojNoflJLuEWmud2SMZI9K5y3uJbS5jnt22SxsGRsA4I+tR0VUIcsbFxgox5Td/4TTX/+f/8A8gx//E1avdWvdW8GSS6hN5zpeqqnYq4G0+gFcxRUujDRpJfIn2MLppJF3TNVudJnaS1KlXXbJFIu5JF9CKs33iK6vbM2kcFrZW7Hc8dpF5YkPvWTRVuEW+ZrUrki3zW1NzXP+QNon/Xs3/oVReHI7Wa+njvXto1e2dUe5ICq56HJ71kUUuT3HG/cXs7Q5bm7/wAIv/1HNF/8C/8A61Zuo6f/AGdOsf2u1uty7t9tJvUexOOtVKKcYyT1Y4qSerCiiirLO4sr28Hh7To9K1zTrEpGwmjuJUDZ3HHBBqeG/wBQSG6/tXxFpd1A1vIoihlTcWI46KK4CiuV4dO/+Ry/V1/SCtXwx/yNFh/12FZVFdMldNHROPNFx7k97/yELj/rq386goooSsrFBRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//2Q==)

[그림 ‑] Round Robin에서 사용한 함수 목록

1. **int inputArr(process\* ps)** : input.txt로부터 값을 불러와 구조체 배열의 주소 구조체 포인터 변수로 받아와 구조체 배열에 입력한다. 텍스트 파일에 아무것도 없다면 “파일에 아무것도 없습니다.”를 출력하고 -1을 반환한다. for문을 사용하여 배열에 매개변수로부터 받은 ps 구조체 배열에 type, id, com\_time을 순서대로 대입하고 process.reamain 멤버는 처음 입력된 서비스 시간으로 초기화한다. type=-1이라면 마지막으로 입력된 배열의 개수를 1증가하고 입력을 중단한다. 마지막으로 변수 count의 값을 반환한다. 함수에서 선언 된 count 변수는 입력된 배열의 개수의 값을 저장하는 변수이다.

|  |
| --- |
| int inputArr(process\* ps) //input.txt를 불러와 구조체 배열에 입력하는 함수  {  int i = 0, count = 0;  FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기  if (fp == NULL)  {  printf("파일에 아무것도 없습니다.");  return -1;  }  else  {  for (i = 0; i < SIZE; i++)  {  fscanf(fp, "%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.  ps[i].remain\_time = ps[i].com\_time;  // 남아있는 서비스 시간 = 입력된 서비스 시간으로 초기화  if (ps[i].type == -1)  // type = -1 이라면 배열에 1을 추가하고 입력을 종료한다.  {  count++;  break;  }  count++;  }  }  fclose(fp);  return count; // 입력된 배열의 개수를 반환  } |

[그림 4‑8] 함수 int inputArr의 코드

1. **void printArr(process\* ps, int cnt)** : input.txt 의 파일로부터 오류없이 정확히 구조체 배열에 들어갔는지 확인하기 위해 구조체 배열의 입력된 값을 출력하는 함수이다. 매개변수로는 inputArr로부터 값을 저장한 구조체 배열과 입력 받은 배열의 개수를 의미하는 int형 cnt 변수이다.

|  |
| --- |
| void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수  {  int i = 0;  for (i = 0; i <= cnt; i++)  {  if (ps[i].type == 0 || ps[i].type == 1)  {  printf(" |%5d|%11d|%15d|\n", ps[i].type, ps[i].id, ps[i].com\_time);  }  else if (ps[i].type == -1)  {  printf(" |%5d| | | \n", ps[i].type);  }  }  } |

[그림 ‑] void printArr의 코드

1. **void print\_ps(process \*ending\_ps)** : 서비스 시간을 모두 수행한 프로세스를 출력하는 함수이다. 구조체 멤버 remain 의 값이 0이되면 프로세스가 완료되었다고 가정하고 Process ID, 실행시간(Computing Time), 도착시간(Arrival Time), 반환시간(Turnaround Time) ,정규화 된 반환시간(Normalized Turnaround Time)을 출력한다. 반환시간은 종료된 시간 – 도착 시간이며 정규화 된 반환시간은 반환시간을 실행시간으로 나눈다. normalized\_turn\_around\_time\_average 변수에 정규화 된 반환시간을 더해준다.

|  |
| --- |
| void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수  {  ending\_ps->turn\_time = now\_time - (ending\_ps->arr\_time);  // 반환시간 = 종료시간 – 도착시간  ending\_ps->nomrtn\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time;  // 정규화 된 반환시간 = 반환시간 / 실행시간  normalized\_turn\_around\_time\_average += ending\_ps->nomrtn\_time;  // 정규화 된 평균 반환시간  printf(" |%11d|%15d|%13d|%17d|%20.2lf|\n", ending\_ps->id, ending\_ps->com\_time, ending\_ps->arr\_time, ending\_ps->turn\_time, ending\_ps->nomrtn\_time); // Process ID, 실행시간, 도착시간, 반환시간, 정규화 된 반환시간을 출력  } |

[그림 4‑10] void print\_ps의 코드

1. **Node\* makeNode(process data)** : 대기 큐에 프로세스 역할을 할 노드를 생성하는 함수이다. 매개변수로 구조체 배열의 값을 불러와서 구조체 포인터로 반환한다 구조체 크기만큼 메모리를 동적할당하고 노드의 next값을 NULL로 설정하고 매개변수로 받아온 값을 Node.data 멤버에 대입하고 생성된 노드의 구조체 포인트 형태로 반환한다..

|  |
| --- |
| Node\* makeNode(process data) // 노드를 생성하는 함수  {  Node \*newNode = (Node\*)malloc(sizeof(Node));  newNode->next = NULL;  newNode->data = data;  return newNode;  } |

[그림 ‑] 함수 Node\* makeNode의 코드

1. **void putNode(Node\*head, Node\* node)** : 프로세스를 대기 큐에 넣는 것을 구현하기 위해 프로세스 역할을 하는 노드를 리스트에 연결하는 함수이다. 처음 노드를 가리키는 head를 매개변수로 받아오고 연결시킬 노드를 구조체 포인터 node를 매개변수로 받아온다. head->next가 NULL을 가리키면 리스트에 노드가 없는 상태이기 때문에 head->next에 연결시킬 노드의 주소를 대입한다. 만약 head->next 가 NULL이 아니면 마지막 노드의 주소를 찾아 마지막 노드의 주소를 받을 변수를 포인터 변수 finding\_lastone을 선언하고 while을 이용해 마지막 노드의 next 멤버에 매개변수로 받은 node의 주소값을 넣고 리스트를 연결한다.

|  |
| --- |
| void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수  {  if ((head->next) == NULL)  //head->next 가 NULL이면 리스트에 노드가 없는 상태이다  {  head->next = node;  }  else  {  Node\* finding\_lastone = head->next;  // 마지막 노드의 주소를 받아놓을 구조체 포인터 변수  while (finding\_lastone->next != NULL)  {  finding\_lastone = finding\_lastone->next;  // head->next 가 NULL이 아니면 리스트에 노드가 존재하는 상태 finding\_lastone->next가 NULL이 되면 finding\_lastone 은 마지막 노드의 주소를 갖는다.  }  finding\_lastone->next = node;  }  } |

[그림 ‑] void putNode의 함수코드

1. **Node\* outNode(Node\* head)** : 대기 큐에서 프로세스를 제외하거나 이동하는 것을 구현하기 위한 함수로 맨 앞의 노드를 리스트에서 제거하거나 이동하기 위해 사용하는 함수이다. 구조체 포인터 adress변수는 제거할 노드의 주소를 저장하는 변수이다.  
    만약 완료하기 위해 필요한 시간 할당량(time\_quantum)보다 작을 경우 프로세스가 완료된 것이므로 전역변수 now\_time의 시간을 data.remain의 값만큼 증가시킨다. data.remain의 값이 시간할당량보다 큰 경우 프로세스 완료를 위해 스케줄링을 더 진행해야 하므로 now\_time을 시간할당량만큼 증가시킨다.  
    만약 head.next가 NULL을 가지고 있으면 함수값 NULL을 반환하고 data.remain 값에서 시간할당량만큼 시간을 빼고 리스트의 마지막에 입력하고 맨 앞의 노드를 리스트에서 제거함과 동시에 head.next의 값을 두번째 순서의 노드와 연결한다. 마지막으로 리스트에서 제거하는 노드의 주소를 반환한다.

|  |
| --- |
| Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수  {  Node\* address;  address = head->next;  if (head->next->data.remain\_time <= QSIZE)  // 남아있는 실행시간이 time\_quatum 보다 작으면 프로세스가 완료된다.  {  now\_time += head->next->data.remain\_time;  // 프로세스가 완료되면 마지막으로 실행한 실행시간만큼 전체 프로세스 시간이 증가한다.  }  else now\_time += QSIZE;  // 프로세스가 완료되지 않고 Round Robin이 한번 더 실행되면 time\_quatum 만큼 전체 프로세스 시간이 증가한다.  if (head->next == NULL)  {  return NULL;  }  else  {  head->next->data.remain\_time = head->next->data.remain\_time - QSIZE;  // 맨 처음의 노드의 남은 실행시간을 time\_quatum 만큼 뺀다.  head->next = head->next->next;  // head->next 를 맨 앞에있던 노드가 아닌 맨 앞의 다음 노드의 주소를 가리킨다  }  address->next = NULL;  return address;  } |

[그림 ‑] 함수 Node\* outNode의 코드

1. **void delNode(Node \*address)** : 입력 받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수

|  |
| --- |
| void delNode(Node \*address) // 입력받은 주소를 가진 노드의 동적 메모리 할당을 해제하는 함수  {  free(address);  } |

[그림 ‑] 함수 void delNode의 코드

1. **void RR(process\* ps, int cnt)** : 라운드 로빈 스케줄링을 구현하는 직접적인 함수이다. 입력 받은 배열의 주소를 가진 구조체 포인터를 매개변수로 받아오고, 프로세스의 개수를 매개변수 cnt로 받아온다. 리스트의 처음을 기억하기 위한 head 노드를 생성하고 head.next를 NULL로 설정한다. 입력 받은 배열의 개수인 cnt 만큼 for문으로 반복을 시행한다. 구조체 멤버 type을 0,1,-1로 구분하고 type 의 값에 따라 각각 처리할 스케줄링을 if문과 else if문으로 구분한다.  
    type = 0인 경우 프로세스에 입력을 의미하며 도착시간을 전역변수로 설정한 전체 스케줄링 시간을 저장한 now\_time으로 설정하고 프로세스의 개수를 의미하는 process\_count의 값을 1만큼 증가한다. 대기 큐에 프로세스를 입력하는 것을 리스트에 노드를 추가하는 함수 putNode로 구현한다.  
    type = 1인 경우 Round Robin 스케줄링을 1회 시행한다. 리스트에서 빼낼 노드의 주소를 저장할 구조체 포인터 변수 deleting\_one 을 선언하고 함수 outNode로부터 반환 받은 주소를 대입한다. 리스트에서 빼 낼 구조체 data.remain 멤버의 값이 0이하면 완료하기 위해 필요한 서비스 시간을 모두 완료하였음을 의미하므로 print\_ps 함수를 이용하여 Node.data 의 정보를 출력한다. 만약 data.remain의 값이 0보다 큰 경우 putNode 함수를 실행한다.  
    type = -1인 경우 프로세스의 입력이 끝났음을 의미하며 대기 큐에 프로세스가 남아있지 않을 때까지 while문을 입력해 type = 0일 때와 같이 알고리즘을 진행한다. head.next 가 NULL을 가지면 대기 큐에 프로세스가 없음을 의미하기 때문에 head.next가 NULL을 가리킬 때까지 시행한다.

|  |
| --- |
| void RR(process\* ps, int cnt) // 라운드 로빈 스케줄링 알고리즘 함수  {  int i = 0;  Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성  head->next = NULL; // head.next 의 값을 NULL로 초기화  for (i = 0; i < cnt; i++)  {  if (ps[i].type == 0)  //type == 0 이면 노드를 생성하고 리스트에 추가한다  {  ps[i].arr\_time = now\_time;  // 도착시간을 현재 프로세스 전체 진행시간으로 설정한다.  process\_count++; // 프로세스의 개수가 1개 증가한다.  putNode(head, makeNode(ps[i]));  }  else if (ps[i].type == 1)  //type == 1 이면 Round Robin 함수를 1회 실행 시킨다.  {  Node \* deleting\_one = outNode(head);  // 리스트에서 빼줄 노드의 주소를 담아두는 변수  if (deleting\_one != NULL)  // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건  {  if (deleting\_one->data.remain\_time <= 0)  // 리스트에서 뺄 노드의 남아있는 실행시간을 완료했을 경우  {  print\_ps(&(deleting\_one->data));  // 완료된 프로세스의 데이터값을 출력하는 함수  }  else  {  putNode(head, deleting\_one);  // 프로세스가 완료되지 않고 실행시간이 남아 있다면 마지막 리스트에 연결한다  }  }  }  else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가  없을때까지 Round Robin을 실행한다.  {  while (1)  {  if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.  {  break;  }  Node \* deleting\_one = outNode(head);  if (deleting\_one != NULL)  // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 Round Robin을 실행한다  {  if (deleting\_one->data.remain\_time <= 0)  // 스케쥴링 할 프로세스의 실행시간을 모두 완료한 경우 출력한다  {  print\_ps(&(deleting\_one->data));  // 완료된 프로세스의 데이터값을 출력하는 함수  delNode(deleting\_one);  // 출력한 데이터의 노드 동적 메모리 할당 해제  }  else  {  putNode(head, deleting\_one);  // 프로세스가 완료되지 않고 실행시간이 남아 있다면 마지막 리스트에 연결한다  }  }  }  }  }  } |

[그림 4‑15] 함수 void RR(process\* ps, int cnt)의 코드

## Round Robin 소스코드

#include<stdio.h>

#include<stdlib.h>

#define SIZE 100

int now\_time = 0; // 전체 프로세스 시간을 전역변수 time으로 정의 후 0으로 초기화

int process\_count = 0; // 입력된 프로세스 개수

int QSIZE = 0; //시간할당량의 값을 저장하는 변수

double normalized\_turn\_around\_time\_average = 0; // 정규화된 반환 시간의 평균

typedef struct Process //노드의 데이터 값의 구조체

{

int type, id, com\_time, arr\_time, turn\_time, remain\_time;

// 실행종료여부, 프로세스ID , 실행시간, 반환시간, 남은 실행시간

double nomrtn\_time;

// 정규화된 반환 시간

}process;

typedef struct Node //연결리스트 노드 정의

{

process data; //노드의 데이터

struct Node \*next; // 다음 노드의 주소를 가리키는 값

}Node;

void RR(process\* ps, int cnt); // 라운드 로빈 스케줄링 함수

int inputArr(process\* ps); // input.txt를 불러와 구조체 배열에 입력하는 함수

void printArr(process\* ps, int cnt); //input.txt에서 불러온 입력값을 출력하는 함수

Node\* makeNode(process data); // 노드를 생성하는 함수

void putNode(Node\*head, Node\* node); // 노드를 리스트에 추가하는 함수

Node\* outNode(Node\* head); // 리스트에서 노드를 제거하는 함수

void delNode(Node \*address); // 입력받은 주소를 가진 노드를 동적 메모리 할당을 해제하는 함수

void print\_ps(process\* ps); // 스케쥴링이 완료되면 노드의 데이터를 출력하는 함수

int main(void)

{

printf("\n Input the time quantum : ");

scanf("%d", &QSIZE);

int ps\_cnt = 0;

process p1[SIZE];

ps\_cnt = inputArr(p1);

printf("\n |=================================|\n");

printf(" |====== input.txt 입력 값 ======|");

printf("\n |=================================|\n");

printf(" | Type| Proces\_ID| Computing\_Time|\n");

printf(" |=================================|\n");

printArr(p1, ps\_cnt);

printf(" |=================================|\n");

printf("\n\n");

printf("\n |================================================================================|\n");

printf(" |=============================== 스케줄링 처리 후 ===============================|");

printf("\n |================================================================================|\n");

printf(" | Proces\_ID| Computing\_Time| Arrival\_time| Turn\_Around\_time| Normalized TA time|\n");

printf(" |================================================================================|\n");

RR(p1, ps\_cnt);

printf(" |================================================================================|\n");

printf(" Normalized\_turn\_around\_time\_average : %.2lf\n", normalized\_turn\_around\_time\_average / process\_count);

printf(" Time quantum : %d \n\n", QSIZE);

getchar();

return 0;

}

void RR(process\* ps, int cnt) // 라운드 로빈 스케줄링 알고리즘 함수

{

int i = 0;

Node\* head = (Node\*)malloc(sizeof(Node)); // 맨 앞의 노드의 주소를 가리키는 head 노드를 생성

head->next = NULL; // head.next 의 값을 NULL로 초기화

for (i = 0; i < cnt; i++)

{

if (ps[i].type == 0) //type == 0 이면 노드를 생성하고 리스트에 추가한다

{

ps[i].arr\_time = now\_time; // 도착시간을 현재 프로세스 진행 시간으로 설정한다.

process\_count++; // 프로세스의 개수가 1개 증가한다.

putNode(head, makeNode(ps[i]));

}

else if (ps[i].type == 1) //type == 1 이면 Round Robin 함수를 1회 실행 시킨다.

{

Node \* deleting\_one = outNode(head); // 리스트에서 빼줄 노드의 주소를 담아두는 변수

if (deleting\_one != NULL) // 리스트에서 뺄 노드의 주소가 NULL 아닐경우의 조건

{

if (deleting\_one->data.remain\_time <= 0) // 리스트에서 뺄 노드의 남아있는 실행시간을 완료했을 경우

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

}

else

{

putNode(head, deleting\_one); // 프로세스가 완료되지 않고 실행시간이 남아 있다면 마지막 리스트에 연결한다

}

}

}

else if (ps[i].type == -1) //type == -1 이면 노드생성가 리스트 추가를 완료하고 리스트에 노드가 없을때까지 Round Robin을 실행한다.

{

while (1)

{

if (head->next == NULL) // 리스트에 노드가 없으면 while 반복문에서 나간다.

{

break;

}

Node \* deleting\_one = outNode(head);

if (deleting\_one != NULL) // 리스트에 남아있는 노드가 있으면 리스트에서 노드가 남지 않을때까지 Round Robin을 실행한다

{

if (deleting\_one->data.remain\_time <= 0) // 스케쥴링 할 프로세스의 실행시간을 모두 완료한 경우 출력한다

{

print\_ps(&(deleting\_one->data)); // 완료된 프로세스의 데이터값을 출력하는 함수

delNode(deleting\_one); // 출력한 데이터의 노드 동적 메모리 할당 해제

}

else

{

putNode(head, deleting\_one); // 프로세스가 완료되지 않고 실행시간이 남아 있다면 마지막 리스트에 연결한다

}

}

}

}

}

}

int inputArr(process\* ps) //input.txt를 불러와 구조체 배열에 입력하는 함수

{

int i = 0, count = 0;

FILE \*fp = fopen("input.txt", "r"); // input.txt 파일을 읽기모드로 불러오기

if (fp == NULL)

{

printf("파일에 아무것도 없습니다.");

return -1;

}

else

{

for (i = 0; i < SIZE; i++)

{

fscanf(fp, "%d,%d,%d", &ps[i].type, &ps[i].id, &ps[i].com\_time); // input.txt 파일을 불러와 노드의 데이터 값에 넣어준다.

ps[i].remain\_time = ps[i].com\_time; // 남아있는 서비스 시간 = 입력된 서비스 시간으로 초기화

if (ps[i].type == -1) // type = -1 이라면 배열에 1을 추가하고 입력을 종료한다.

{

count++;

break;

}

count++;

}

}

fclose(fp);

return count; // 입력된 배열의 개수를 반환

}

void printArr(process\* ps, int cnt) //input.txt에서 불러온 입력값을 출력하는 함수

{

int i = 0;

for (i = 0; i <= cnt; i++)

{

if (ps[i].type == 0 || ps[i].type == 1)

{

printf(" |%5d|%11d|%15d|\n", ps[i].type, ps[i].id, ps[i].com\_time);

}

else if (ps[i].type == -1)

{

printf(" |%5d| | | \n", ps[i].type);

}

}

}

void print\_ps(process \*ending\_ps) // 스케쥴링이 완료되면 출력하는 함수

{

ending\_ps->turn\_time = now\_time - (ending\_ps->arr\_time); // 반환시간 = 종료시간 - 도착시간

ending\_ps->nomrtn\_time = (double)ending\_ps->turn\_time / (double)ending\_ps->com\_time; // 정규화된 반환시간 = 반환시간 / 실행시간

normalized\_turn\_around\_time\_average += ending\_ps->nomrtn\_time;

printf(" |%11d|%15d|%13d|%17d|%20.2lf|\n", ending\_ps->id, ending\_ps->com\_time, ending\_ps->arr\_time, ending\_ps->turn\_time, ending\_ps->nomrtn\_time); // Process ID, 실행시간, 반환시간을 출력하는 함수

}

Node\* makeNode(process data) // 노드를 생성하는 함수

{

Node \*newNode = (Node\*)malloc(sizeof(Node));

newNode->next = NULL;

newNode->data = data;

return newNode;

}

void putNode(Node\*head, Node\* node) // 노드를 리스트에 추가하는 함수

{

if ((head->next) == NULL) //head->next 가 NULL이면 리스트에 노드가 없는 상태이다

{

head->next = node;

}

else

{

Node\* finding\_lastone = head->next; // 마지막 노드의 주소를 받아놓을 구조체 포인터 변수

while (finding\_lastone->next != NULL)

{

finding\_lastone = finding\_lastone->next;

//finding\_lastone->next가 NULL을 가지면 마지막 노드이므로 finding\_lastone이 NULL을 찾을 때까지 반복한다.

}

finding\_lastone->next = node;

}

}

Node\* outNode(Node\* head) // 리스트에서 노드를 제거하는 함수

{

Node\* address;

address = head->next;

if (head->next->data.remain\_time <= QSIZE) // 남아있는 실행시간이 time\_quatum 보다 작으면 프로세스가 완료된다.

{

now\_time += head->next->data.remain\_time; // 프로세스가 완료되면 마지막으로 실행한 실행시간만큼 전체 프로세스 시간이 증가한다.

}

else now\_time += QSIZE; // 프로세스가 완료되지 않고 Round Robin이 한번 더 실행되면 time\_quatum 만큼 전체 프로세스 시간이 증가한다.

if (head->next == NULL)

{

return NULL;

}

else

{

head->next->data.remain\_time = head->next->data.remain\_time - QSIZE; // 맨 처음의 노드의 남은 실행시간을 time\_quatum 만큼 뺀다.

head->next = head->next->next; // head->next 를 맨 앞에있던 노드가 아닌 맨 앞의 다음 노드의 주소를 가리킨다

}

address->next = NULL;

return address;

}

void delNode(Node \*address) // 입력받은 주소를 가진 노드를 동적 메모리 할당을 해제하는 함수

{

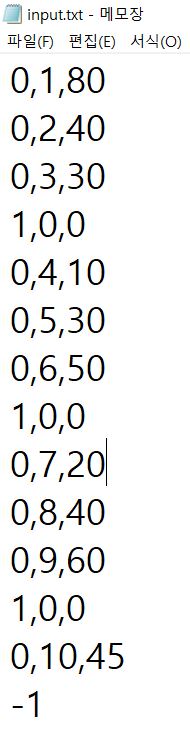
free(address);

}

## Round Robin 예제 결과 및 설명

### Round Robin 입력 예제와 결과값

* **입력 예제**

****

[그림 ‑] Round Robin의 예제 input.txt

* 입력 예제를 이용한 Round Robin 결과 값

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdpbHkgTGVlAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTAAAJKSAAIAAAADNTAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Acodio7/PwlZvhzxXY6P/wiX2mK4b+xfEEmp3Hlqp3xN9lwEyRlv9Hfg4HK89cGkeK7G08Gp4dvYrjybqa7W9liVS0cUps3jaPJAZlktMlTgMvyhlLblAJfFPgqfStAGtroGuaBbpdJaPa62pLyM6u6vHJ5UYYYjYMu35fkOW3kJxta2qtoEFqttoRvL12cSSX19ALd1ABAjSJJHXHO4sWJPygBNrF8mgDqZtN8OaGtvYa/Dqk99cWsF091ZXMaRWyzxLKgETRkzFUdWPzx5YlBgASNJ418KWPhv7T9hluJPK8Qalpi+cynMVt5Gw8AfMfNbJ6cDAHeObUvDmtrb32vzapBfW9rBava2VtG8VysESxIRK0gMJZEVT8kmGBcZBEa63izW9D1jxV4h07Vby4j0+PxBf39jf6ZCl15nnOqsCrSIGUrFGyurcYbht4KAGTF4c04Dw480l5KdT09rprS3XfNdTfbJoEghwpClhGnLZx85Ac7Y2s+KfBU+laANbXQNc0C3S6S0e11tSXkZ1d1eOTyowwxGwZdvy/IctvISS48V6Gkmm2Wnxagunw6LJpE93IqC6j33UsrTRAHA3LIA0ZPKPJFv582qV3qXhy18I3+h6PNql091dW96Ly6to4QWiEiCHylkfaNs7t5m85IVdg5egDW1bw34V/4SzX/AAzpVprFvd6X9v8ALvbnUYpo3+yJLIcxLAh+cQkff+Utn5sYMehXPhyP4T6qNT0rVLh11axE7W+pxwiRjFe7CoMD7QF3AgltxIIK4waM/iuxl+JXiHxCsVx9k1P+1PJQqvmL9qhmSPcM4GDKucE4AOM96Wh6lpX9gajomuTXlrb3d1b3a3VnbLcOrQrMgQxtJGMMJyd27jYBg7sgAq3OlQQ+C9N1dWkNxdahd2rqSNgWKO3ZSBjOczNnnsOnOeg0/wAMaHFoceraqmoXMQ8PnU5ILa6SFml/tM2gAdo3wuzDYwST3A4GTpupaVd6BFoniCa8s7e1upbu2urG2Wd90qxo6PG0iAgiGMhgw24YENuBTW1DxXof9hyaXpUWoGJfD40qOS5VAzyjUxdmQhT8qlM/L8xUnblgN5ADWPDGhxWGpppqahDd6fplrq5luLpJY5Irg2+2HYI1IZBdKDJuIYxk7F3gJxNdbeeK7G4/tnZFcD7f4f0/TIsqvEsH2PeTz90/ZnwRk8rkDJxyVAFm1vfsttew/Zreb7XCId80e5ocSI++M/wt8m3P91mHeq1WbW9+y217D9mt5vtcIh3zR7mhxIj74z/C3ybc/wB1mHeq1AF2w1WfTrLU7WBI2TUrVbWYuCSqiaObK4PB3RKOc8E/Udl4a0+1ttV0fwXrcXnz6v4g0+TUbYMV+yIjSR+S7A58xhcMWUYMe1QTvLLHgeD9S0rStQu7jVpry1m+ylbC9srZZ5LSfzEPmBGkQZ2CQBs5VmVlwygiK9/sPTfs934Y1vWJdQhmV0afT0tPKxyHWRLhzuDBccD1zxyAaXg3ULrWvi5pk+py+fLrepiDUG2hfOS6cxzjgDbuSVxlcEZyMEDHJV1p8QaHa38/iHSoLi31u48xo7FbdI7SwlcEGWGRX3fJktEmxDG2w738v95yVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB/9k=)

[그림 ‑] 입력 예제를 이용한 Round Robin 출력 값

### Round Robin 예제 결과 검증

* Round Robin 스케줄링의 예제 결과 과정을 설명하기 위해 MS office Excel을 이용하였다.   
  첨부파일 [Round Robin Scheduling\_2017150048\_이길형.xsls](Round%20Robin%20Scheduling_2017150048_이길형.xlsx) 을 보고서와 함께 첨부하였다.

# 분석 및 결론

## 정규화 된 반환시간(Normalized turnaround time) 비교 분석

**FCFS, Priority Queue, Round Robin 스케줄링의 정규화 된 반환시간의 평균 비교**

|  |  |
| --- | --- |
| 알고리즘명 | Normalized Turnaround Time Average |
| FCFS (선입선출) | 4.50 |
| Priority Queue (우선순위) | 3.59 |
| Round Robin (Time Quantum=20) | 6.52 |
| Round Robin (Time Quantum=5) | 7.35 |
| Round Robin (Time Quantum=100) | 4.50 |

[그림 ‑] 스케줄링 알고리즘 정규화 된 반환시간의 평균 비교 표

* 정규화 된 반환시간의 평균이 가장 낮은 알고리즘은 3.59로 우선순위 스케줄링 기법이다. 하지만 계속해서 우선순위가 높은 프로세스가 입력되는 경우 우선순위가 낮은 프로세스가 기아상태에 빠질 수 있는 점이 단점인 스케줄링 기법이다.   
   FCFS 방식은 입력된 순서에 따라 스케줄링을 하는 방식으로 정규화 된 반환시간의 평균이 4.50으로 두번째로 빠른 스케줄링으로 볼 수 있지만 프로세스가 계속해서 입력되거나 서비스 시간이 큰 프로세스가 입력될 시 나중에 들어온 프로세스가 늦게 처리될 수 있기 때문에 효율적인 스케줄링 기법으로 보기는 힘들다.  
   시간할당량(Time Quantum)만큼 서비스 시간을 할당하여 할당 받은 시간단위만큼 서비스 타임이 감소하고 프로세스가 대기 큐의 끝으로 밀려나게 된다. 결국 시간할당량에 따라 스케줄링 시간에 영향을 주는데 시간할당량이 너무 작은 경우 빈번하게 프로세스를 처리하므로 정규화 된 반환시간이 길어지게 되고 시간할당량이 큰 경우 FCFS와 같아지게 되므로 시간할당량을 적절히 설정하여 CPU를 분배하는 것이 중요하다.

## 결론 및 총평

* 하나의 스케줄링 기법을 사용하는 것이 아닌 다양한 스케줄링 기법을 혼합하여 적절하게 사용한다면 CPU를 효율적이게 사용할 수 있을 것이다. 우선순위 기반 스케줄링과 라운드 로빈 기법을 혼용하여 우선순위로 프로세스를 분류하고 시간할당량(Time Quantum)만큼 시간을 할당하고 대기 큐의 끝으로 보낼 때 우선순위를 일정숫자만큼 증가시켜 프로세스를 대기하게 하면 모든 프로세스를 최대한 효율적이고 적절하게 CPU를 할당하여 스케줄링이 가능할 것으로 생각된다. 하지만 그렇게 할 경우 대기 큐에 오래 남아있는 프로세스가 발생할 수 있기 때문에 프로세스가 진행될 때 대기 큐에 오래 남아 있는 경우 프로세스의 우선순위를 일정량만큼 높여 CPU를 할당 받지 못하는 프로세스가 없게 하는 장치를 설정해둘 필요가 있다고 생각한다.   
   각각 CPU 스케줄링마다 특징이 존재하고 그 특징을 이용해 적절하게 사용하여 효율적으로 CPU을 사용하여 새로운 하나의 스케줄링 기법을 만들어내는 것이 가장 적절한 방식이라 생각한다.