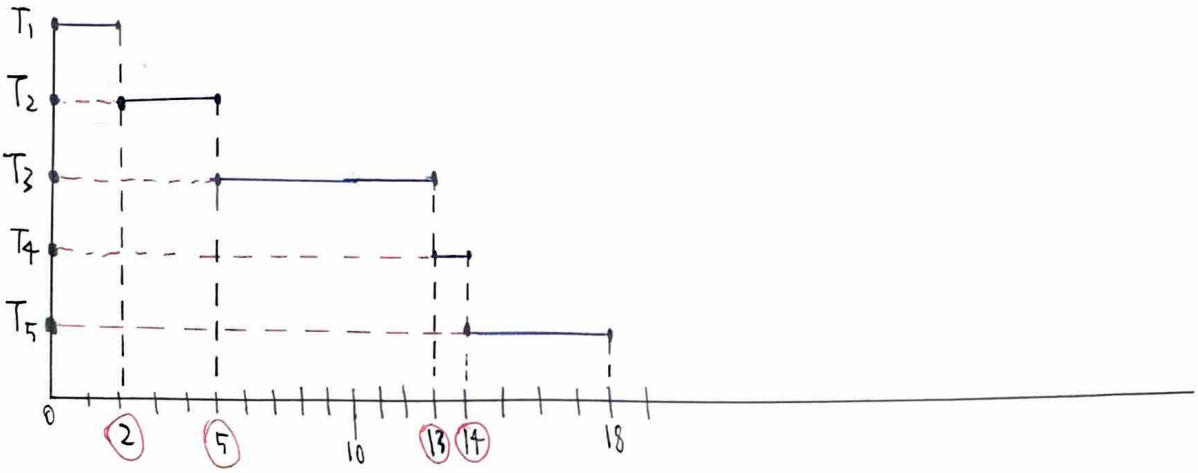
복합 문제 1 (291p)

(1) FCFS

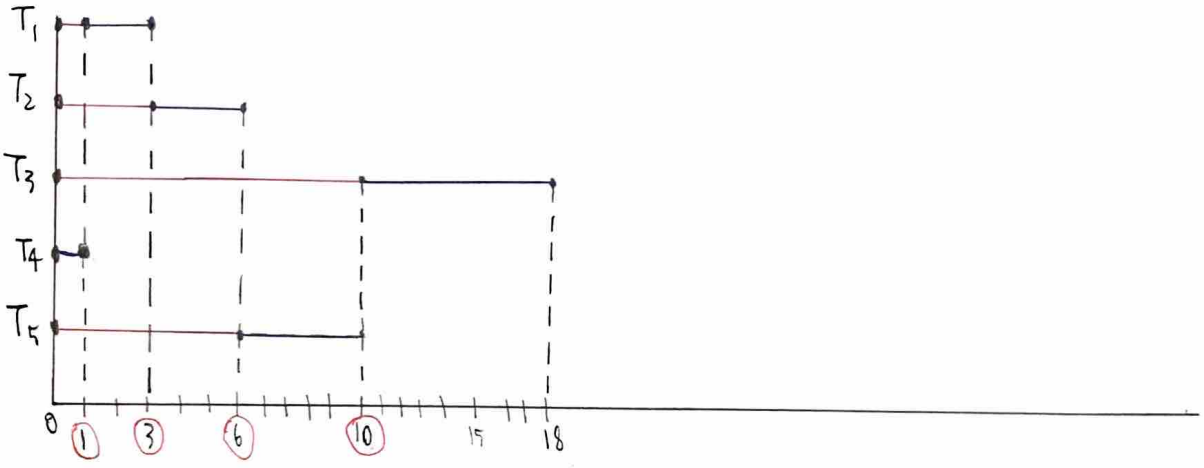
차트



평균 대기 시간: $(0+2+5+13+14)/5 = \frac{34}{5} = 6.8$ (ms)

SJF

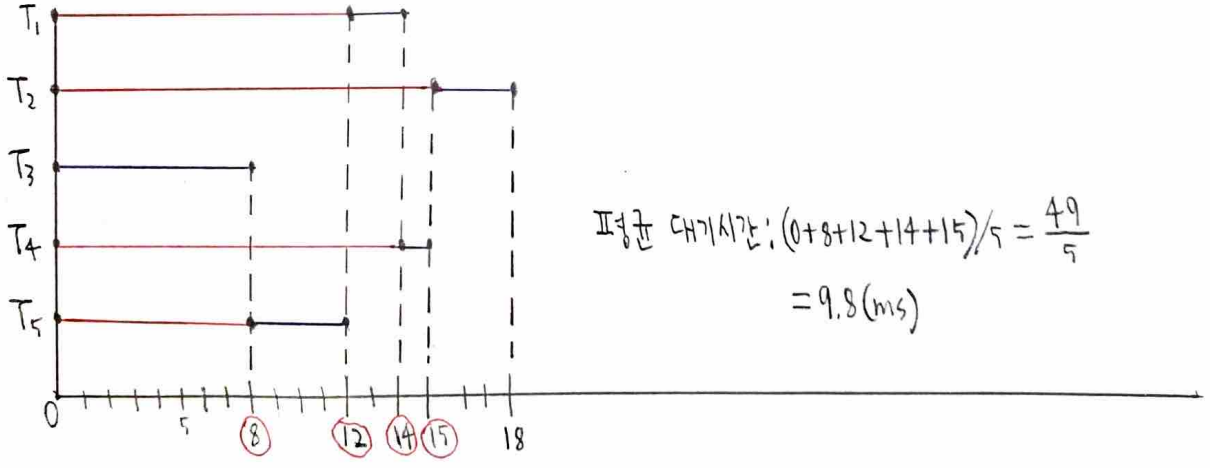
차트



평균 대기시간: $(0+1+3+6+10)/5 = \frac{20}{5} = 4$ (ms)

Non-Preemptive Priority Scheduling

차트



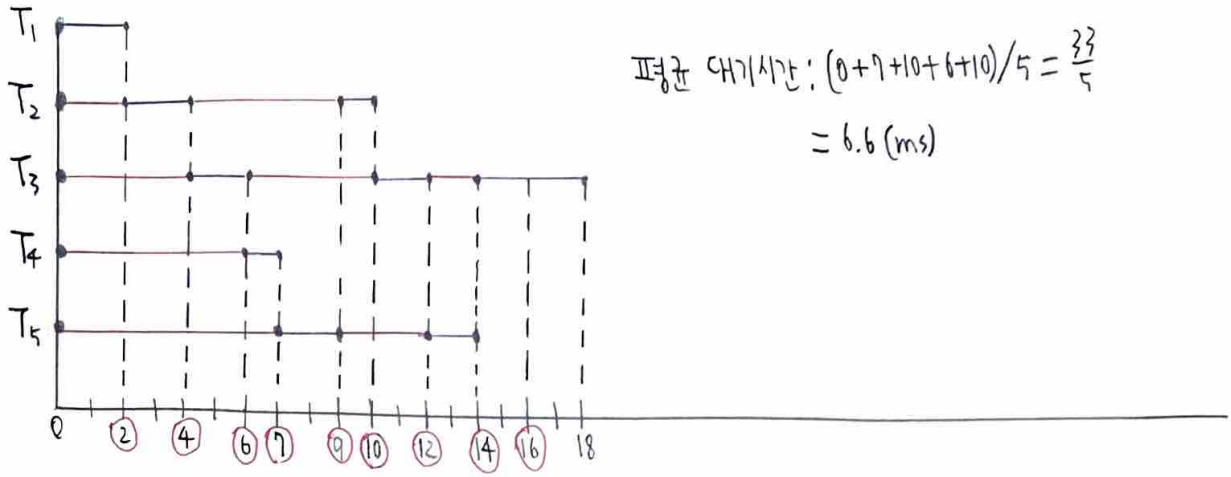
평균 대기시간: $(0+8+12+14+15)/5 = \frac{49}{5}$

$= 9.8$ (ms)

29p 복합 문제 1

(2) RR (Round Robin) (타임 슬라이스 = 2ms)

차트



평균 대기시간 : $(0+7+10+6+10)/5 = \frac{33}{5}$

$= 6.6\,(ms)$

(3)

스레드의 실행 시간 합 : $2+3+8+1+4 = 18\,(ms)$

총 스케줄링 오버헤드 : $0.1ms \times 9 = 0.9ms$

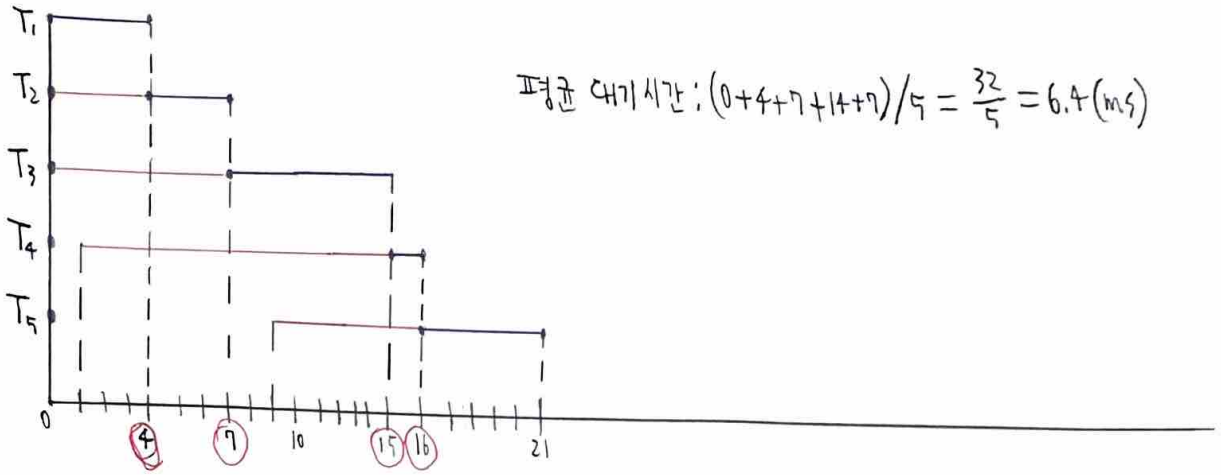
∴ 총 걸린 시간 : $18.9ms$

291p 복합 문제2

(1)

FCFS

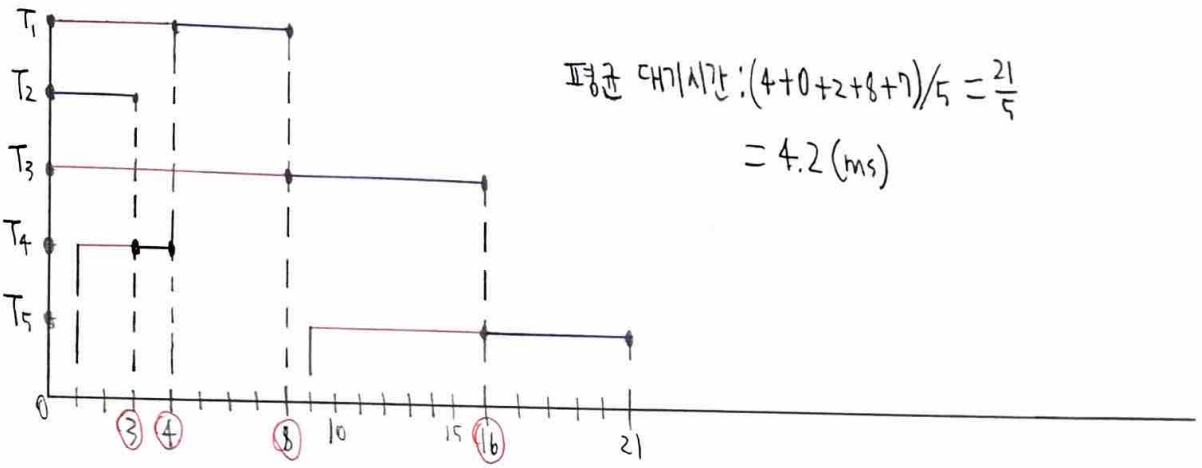
차트



평균 대기시간 : $(0+4+7+14+7)/5 = \frac{32}{5} = 6.4(ms)$

SJF

차트

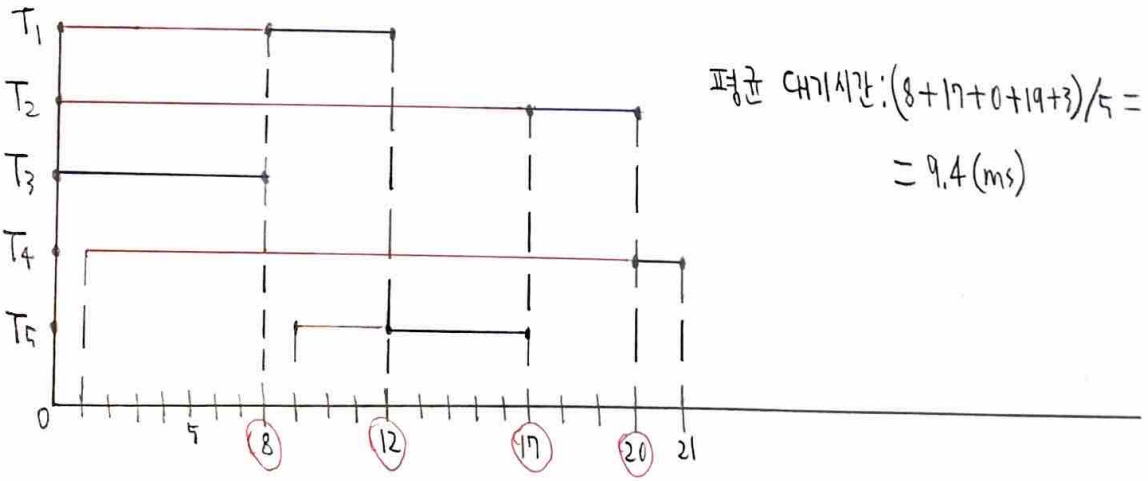


평균 대기시간 : $(4+0+2+8+7)/5 = \frac{21}{5}$

$= 4.2(ms)$

Non-Preemptive Priority Scheduling

차트



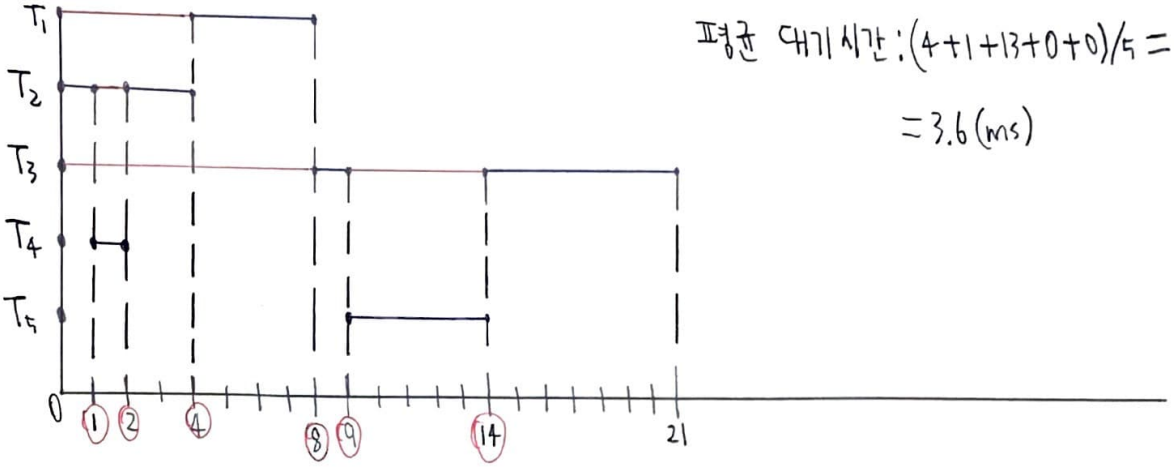
평균 대기시간 : $(8+17+0+19+3)/5 = \frac{47}{5}$

$= 9.4(ms)$

291p 복합 문제2

(2) SRTF

차트

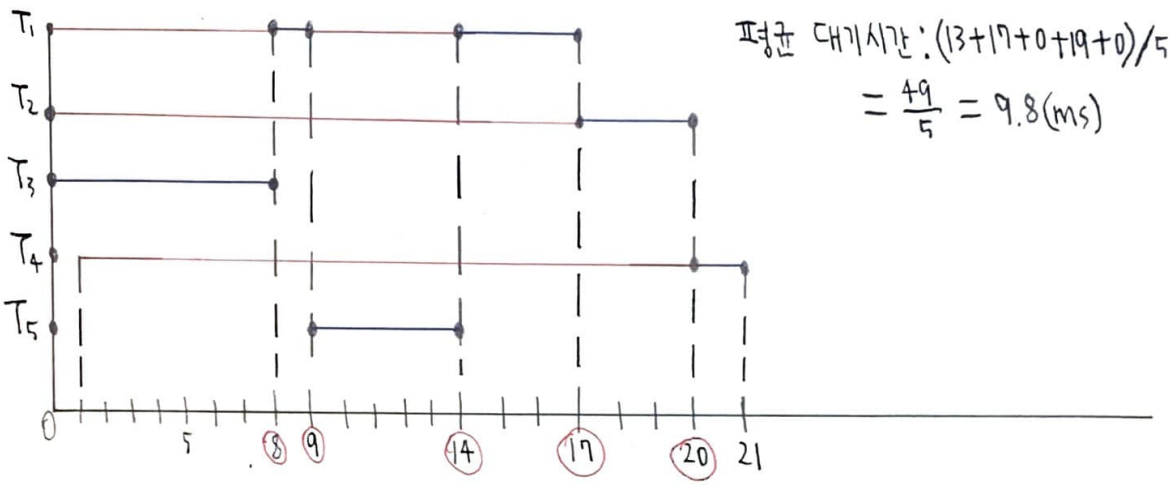


평균 대기시간 : $(4+1+13+0+0)/5 = \frac{18}{5}$

$= 3.6(ms)$

(3) Preemptive Priority Scheduling

차트



평균 대기시간 : $(13+17+0+19+0)/5$

$= \frac{49}{5} = 9.8(ms)$