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< PSSAV simulation Assignment >

1. FCFS

ID	Arrival time	Burst time	priority	Turnaround time	Waiting time
P1	0	7	4	17	0
P2	4	9	2	12	3
P3	7	9	1	18	9
P4	14	10	3	21	11
P5	18	5	5	22	17
P6	18	8	2	30	22

\downarrow \downarrow
 $\underline{\underline{18.33ms}}$ $\underline{\underline{10.33ms}}$

✓ 18.33 (평균 Turnaround time) [ms]

⇒ 모든 process의 Turnaround time 더하기

$$\frac{\text{process 수}}{\rightarrow (7+12+18+21+22+30)} \\ 6$$

✓ 10.33 (평균 waiting time) [ms]

⇒ 모든 process의 waiting time 더하기

$$\frac{\text{process 수}}{\rightarrow (0+3+9+11+17+22)} \\ 6$$

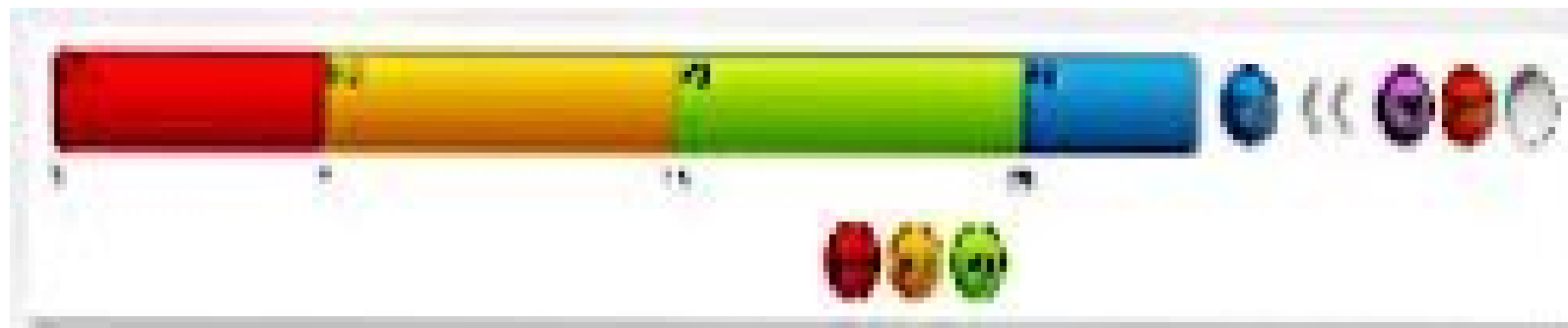
장점 → simple & fair.

단점 → 모든 process의 우선순위가 같음.

→ convey effect 발생.

(최소시간이 process 수에 도달하여 우선순위가 낮아짐)

Time	Host	Port	Service	OS	IP	MAC
1						
2						
3						
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Time	Article	Product	Quantity	Turnover	Box/gross	Terminol	Terminol #		
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1									
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5									
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7									
8									
9									
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20									
21									
22									
23									
24									



CamScanner로 스캔하기

2. SJF. (non-preemptive)

ID	Arrival time	Exec time	priority	Turnaround time	Waiting time
P1	0	1	4	7	0
P2	4	9	2	12	2
P3	7	9	1	18	9
P4	14	10	3	34	29
P5	18	5	5	12	7
P6	18	8	2	20	12











































































































\downarrow \downarrow
 17.17 [ms] 9.17 [ms]

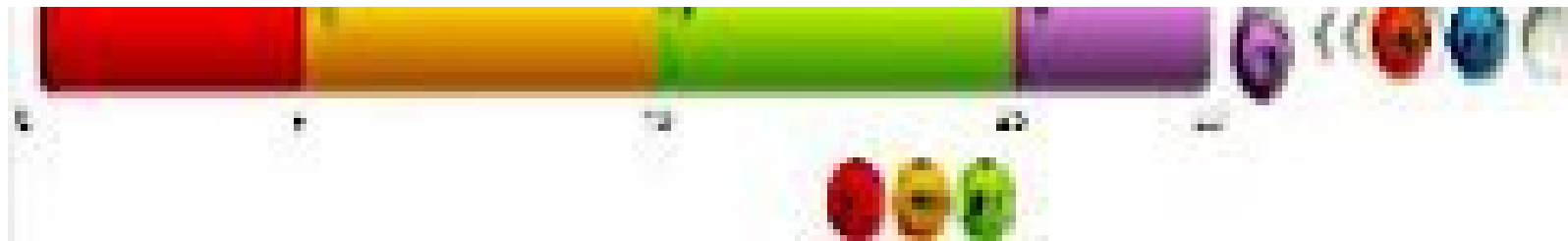
$$\checkmark \quad 17.17 \text{ [ms]}$$








































































































$$\rightarrow \frac{(7+12+18+34+12+20)}{6}$$

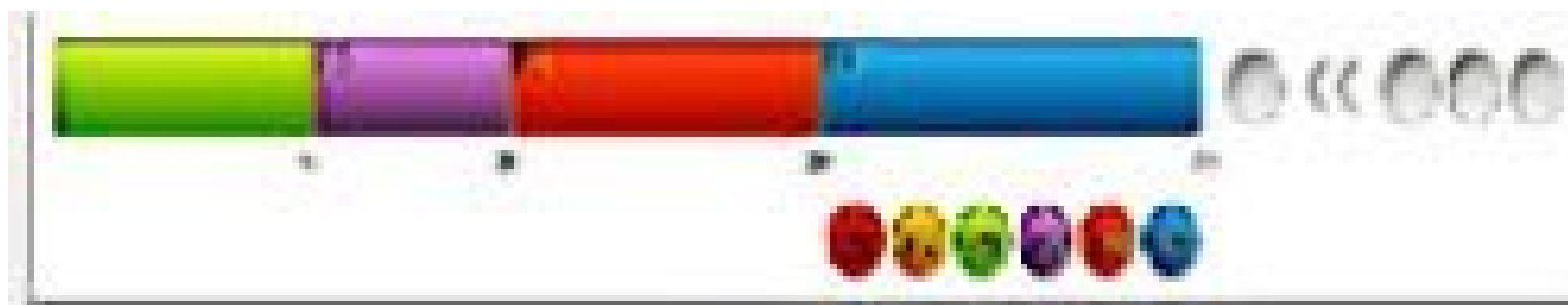
$$\checkmark \quad 9.17 \text{ [ms]}$$

$$\rightarrow \frac{(0+2+9+24+7+12)}{6}$$

Day	Score	Initial	Learning	Review	Progress	Review	Final
0							
1							
2							
3							
4							
5							
6							
7							
8							
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10							
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12							
13					 		
14					 		
15							 
16							 
17	 				  		 
18					  		 
19					  		 
20					  		 
21					  		 
22					  		 
23					  		 
24					  		 



Day	Goal	Personal Development	Running	Feedback	Technical	Technical 2	
1		 					
1							
2							
3							
4							
5							
6							
7		 					
8							
9							
10							
11							
12							
13							
14				 			
15				 			
16		 				 	
17						 	
18	 			  		 	
19				  		 	
20				  		 	
21				  		 	
22				  		 	
23				  		 	
24				  		 	



2- (2) SJF (preemptive)

ID	arrival time	burst time	priority	turnaround time	waiting time
p1	0	1	4	7	0
p2	4	4	2	26	12
p3	7	4	1	9	0
p4	14	10	3	34	24
p5	18	5	5	5	0
p6	19	8	2	20	12

평균 16.83 [ms]
평균 8.83 [ms]




































































































$$\sqrt{16.83 \text{ [ms]}}$$

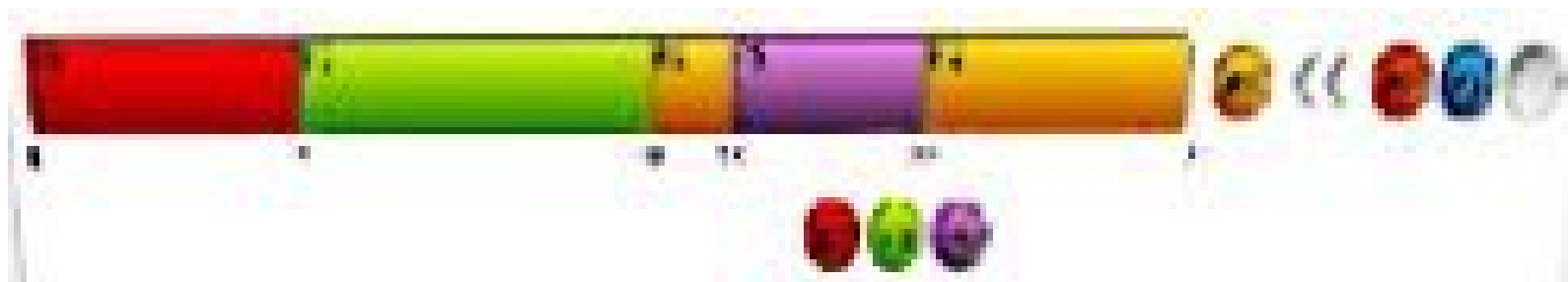
$$\rightarrow \frac{(7 + 26 + 9 + 34 + 5 + 20)}{6}$$

$$\sqrt{8.83 \text{ [ms]}}$$





































































































$$\rightarrow \frac{(0 + 12 + 0 + 24 + 0 + 12)}{6}$$

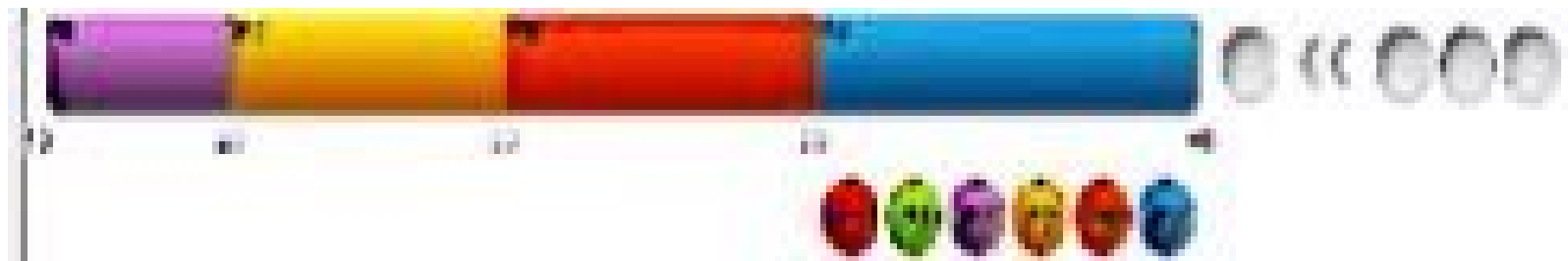
- (장점) → 대기시간을 줄이는 측면에서 가장 좋은 방법일 수 있다.
- (단점) → 비효율적, overhead 높을 수 있다. 계산량이 클 수 있다.

Time	Field	Focus Distance, Meter	Footcandle	Series A	Series B
1		 			
2					
3					
4					
5			 		
6			 		
7			 		
8			 		
9		 	  		
10			 		
11			 		
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13			 		
14			  		
15			  		
16		 	 		 
17					 
18	 	 	  		 
19			  		 
20			  		 
21			  		 
22			  		 
23			  		 
24			 		  
25			 		  



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Day	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
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14					 		
15					 		
16							 
17							 
18	 				  		 
19					  		 
20					  		 
21					  		 
22					 		  
23					 		  



3. priority (non-preemptive)

ID	Arrival time	Best time	priority	Turnaround time	waiting time
P1	0	9	4	7	0
P2	4	9	2	21	12
P3	5	9	1	9	2
P4	14	10	3	29	19
P5	18	5	5	30	25
P6	18	8	2	15	7

$\frac{18.5}{6}$ $\frac{10.5}{6}$

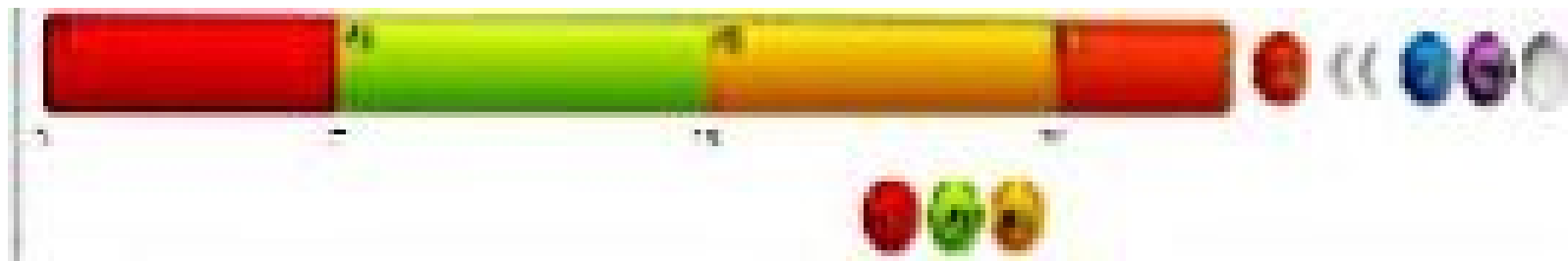
✓ 18.5 [ms]

$$\rightarrow \frac{(7 + 21 + 9 + 29 + 30 + 15)}{6}$$

✓ 10.5 [ms]

$$\rightarrow \frac{(12 + 0 + 2 + 19 + 25 + 7)}{6}$$

Time	Location	Person	Person	Person	Person	Person	Person	Person
1								
2								
3								
4								
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99								
100								



Time	White	Yellow	Blue	Green	Red	Black	Grey	Light Blue
1								
2								
3								
4								
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7								
8								
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10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



3-a). priority (preemptive)

ID	Arrival time	burst time	priority	Turnaround time	Waiting time
P1	0	9	4	43	36
P2	4	9	2	18	9
P3	5	9	1	9	2
P4	14	10	3	26	16
P5	18	5	5	30	25
P6	18	8	2	12	4

23[ms] 15[ms]

✓ 23[ms]








































































































$$\rightarrow \frac{(43+18+9+26+30+12)}{6}$$

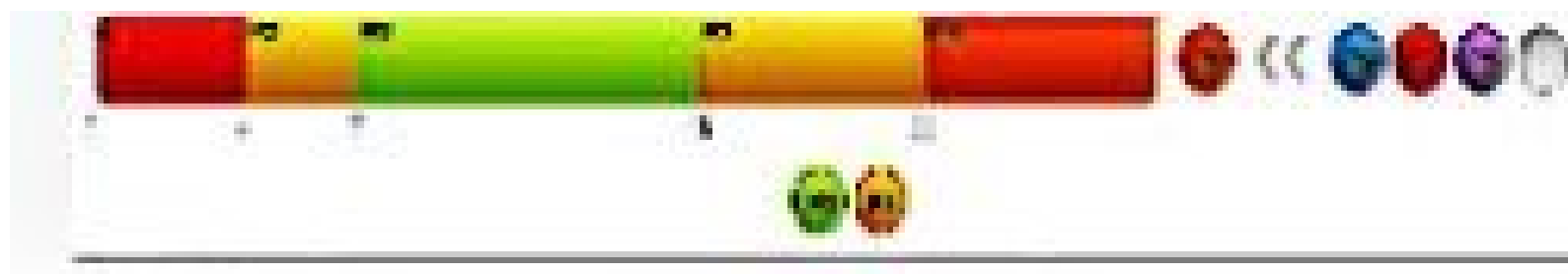
✓ 15[ms]

$$\rightarrow \frac{(36+9+2+16+25+4)}{6}$$

장점 반응 다양 \rightarrow 실시간 system에 사용가능.

단점 starvation 같은 process 존재 할수있음 \rightarrow aging으로 해결.

Time	Zone	Red dot	Carrying Person	Red cone	Terminal	Terminal b.
0						
1						
2						
3						
4						
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7					 	
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9					 	
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11					 	
12					 	
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14					  	
15					  	
16					 	
17					 	
18	 				   	
19					   	
20					   	
21					   	
22					  	
23					  	 
24					  	 



Time	Wink	Forward Shutter (Turn)	Backward	Turned	Turned 180	
1						
2						
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22						
23						
24						



4. Round Robin.



































































































ID	Arrival time	Run time	priority	Turnaround time	Waiting time
P1	0	7	4	13	6
P2	4	9	2	18	9
P3	7	9	1	35	26
P4	14	10	3	32	22
P5	18	5	5	15	10
		8	2	30	22
P6	18			50	30
				23.83 [ms]	15.83 [ms]

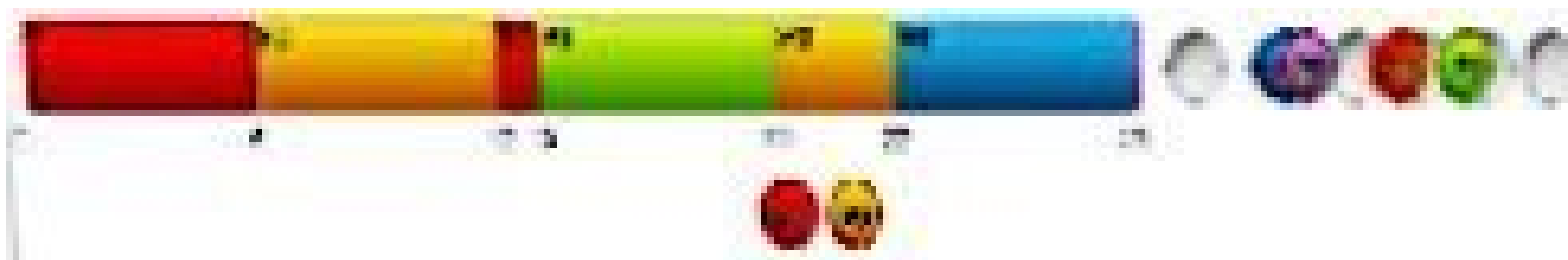
✓ 23.83 [ms]

$$\rightarrow \frac{(13 + 18 + 35 + 32 + 15 + 30)}{6}$$

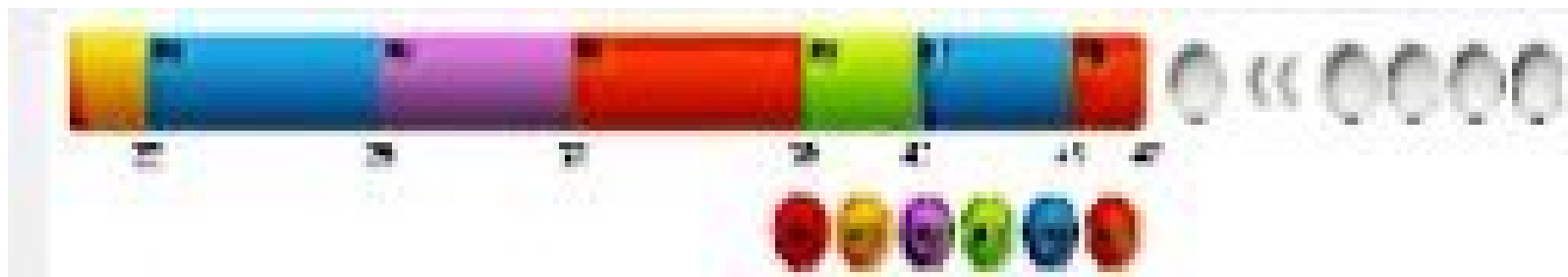
✓ 15.83 [ms]

$$\rightarrow \frac{(6 + 9 + 26 + 22 + 10 + 22)}{6}$$

Day	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1		 					
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19				   			
20				   			
21		 		  		 	
22				  		 	
23				  		 	



Year	Month	Teacher (Start/End)	Timing	Part 1 (Start/End)	Part 2 (Start/End)	Part 3 (Start/End)
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
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15	1					
16	1					
17	1					
18	1					
19	1					
20	1					
21	1					
22	1					
23	1					
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25	1					
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100	1					



CamScanner로 스캔하기