

Scheduling: FIFO, SJF, and RR

Due Sep 24, 2019 at 11:59pm **Points** 9 **Questions** 9
Available after Sep 17, 2019 at 10:59am **Time Limit** None
Allowed Attempts Unlimited

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	1 minute	9 out of 9
LATEST	Attempt 2	1 minute	9 out of 9
	Attempt 1	9 minutes	5 out of 9

Score for this attempt: **9** out of 9

Submitted Sep 23, 2019 at 10:45pm

This attempt took 1 minute.

Question 1

1 / 1 pts

Assume you have the following workload where all jobs arrive at approximately the same point in time with the specified run time:

Job 0 (length = 5)

Job 1 (length = 3)

Job 2 (length = 7)

Using an FCFS scheduler, what is the turnaround time of **Job 1**?

Correct!

Correct Answers

8 (with margin: 0)

Question 2**1 / 1 pts**

What is the turnaround time of Job 2?

Correct!**Correct Answers**

15 (with margin: 0)

Question 3**1 / 1 pts**

What is the average response time for the three jobs with FCFS?

Correct!**Correct Answers**

Between 4.3 and 4.4

Execution trace:

[time 0] Run job 0 for 5.00 secs (DONE at 5.00)

[time 5] Run job 1 for 3.00 secs (DONE at 8.00)

[time 8] Run job 2 for 7.00 secs (DONE at 15.00)

Final statistics:

Job 0 -- Response: 0.00 Turnaround 5.00 Wait 0.00

Job 1 -- Response: 5.00 Turnaround 8.00 Wait 5.00

Job 2 -- Response: 8.00 Turnaround 15.00 Wait 8.00

Average -- Response: 4.33 Turnaround 9.33 Wait 4.33

Question 4**1 / 1 pts**

For the same workload of 3 jobs, assume SJF is used.

What will be the turnaround time of **Job 1**?

Correct!

Correct Answers

3 (with margin: 0)

Question 5

1 / 1 pts

What is the turnaround time of **Job 2**?

Correct!

Correct Answers

15 (with margin: 0)

Question 6

1 / 1 pts

What is the average response time for the three jobs with SJF?

Correct!

Correct Answers

Between 3.6 and 3.7

Execution trace:

[time 0] Run job 1 for 3.00 secs (DONE at 3.00)
[time 3] Run job 0 for 5.00 secs (DONE at 8.00)
[time 8] Run job 2 for 7.00 secs (DONE at 15.00)

Final statistics:

Job 1 -- Response: 0.00 Turnaround 3.00 Wait 0.00
Job 0 -- Response: 3.00 Turnaround 8.00 Wait 3.00
Job 2 -- Response: 8.00 Turnaround 15.00 Wait 8.00
Average -- Response: 3.67 Turnaround 8.67 Wait 3.67

Question 7

1 / 1 pts

For the same workload of 3 jobs, assume a Round Robin scheduler uses a time-slice of **1 second**.

What will be the turnaround time for **Job 1**?

Correct!

Correct Answers

8 (with margin: 0)

Question 8

1 / 1 pts

What will be the turnaround time for Job 2?

Correct!

Correct Answers

15 (with margin: 0)

Question 9**1 / 1 pts**

What is the average response time of the 3 jobs with RR?

Correct!**Correct Answers**

1 (with margin: 0)

Execution trace:

[time 0] Run job 0 for 1.00 secs
[time 1] Run job 1 for 1.00 secs
[time 2] Run job 2 for 1.00 secs
[time 3] Run job 0 for 1.00 secs
[time 4] Run job 1 for 1.00 secs
[time 5] Run job 2 for 1.00 secs
[time 6] Run job 0 for 1.00 secs
[time 7] Run job 1 for 1.00 secs (DONE at 8.00)
[time 8] Run job 2 for 1.00 secs
[time 9] Run job 0 for 1.00 secs
[time 10] Run job 2 for 1.00 secs
[time 11] Run job 0 for 1.00 secs (DONE at 12.00)
[time 12] Run job 2 for 1.00 secs
[time 13] Run job 2 for 1.00 secs
[time 14] Run job 2 for 1.00 secs (DONE at 15.00)

Final statistics:

Job 0 -- Response: 0.00 Turnaround 12.00 Wait 7.00
Job 1 -- Response: 1.00 Turnaround 8.00 Wait 5.00
Job 2 -- Response: 2.00 Turnaround 15.00 Wait 8.00

Average -- Response: 1.00 Turnaround 11.67 Wait 6.67

Quiz Score: 9 out of 9