Exercise 12: Scheduling

Started: Nov 2 at 10:26am

Quiz Instructions

Here is a PDF file that will help you complete the exercise: Exercise12-scheduling.pdf

| Questic | n 1 | | | | | 1 pt |
|------------|-----------|-----------|------------------|------|---------------------------------------|-----------------------|
| | | | | | | |
| Consider | the follo | owing lis | of proce | sses | 3: | |
| | | | | | e 0 and gets 3 time units of service | |
| | • | | | | es at time 2, waits 1 time unit, and | |
| inne un | its. vve | assume | that once | еаμ | process has the CPU it runs to cor | прівцоп |
| Process | | Service | | | | |
| | Time | Time | | | | |
| Α | 0 | 3 | | | | |
| В | 2 | 6 | | | | |
| С | 4 | 4 | | | | |
| D | 6 | 5 | | | | |
| E | 8 | 2 | | | | |
| ill in the | chart ir | the prov | vided ndf | file | nto the remaining 3 processes | using a Firs t |
| | | • | - | | ars in the last 3 rows indicate the a | • |
| he proce | SS. | | | | | |
| Compute | the foll | owing va | lues: | | | |
| • | | | | ٦ | | |
| Total wait | time: | | | tim | e units | |
| | | | | | | |
| Total runr | ning tim | e: | | | time units | |
| | | | | | | |
| Average v | wait tim | e: | | | time units | |

Average time to completion: time units (wait time plus run time for each process)

| Question 2 | 1 pts |
|---|------------|
| Now create a schedule that minimizes wait time . You may not ch time, and once a process begins running, it runs to completion. Ho the next process to run? | |
| Edit View Insert Format Tools Table 12pt \vee Paragraph \vee \mid B \mid \square \mid \mid \square \mid | : |
| | |
| p | rds 🖊 🔡 |

| Question 3 | 1 pts |
|--|-------|
| | |
| What is the minimum average wait time? | |
| What is the average turnaround time? | |
| | |

Question 4 1 pts

When we look at the Round Robin Algorithm, it doesn't really make sense to talk about the wait time because it is technically waiting in between times when it gets the CPU. As a user, we are interested in when the job completes relative to when it arrives, so the most interesting metric is turnaround time.

What is the average turnaround time for the processes above? [tt]

Not saved

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