Assignment: CPU Scheduling

Use this form to complete your assignment. Students may work alone or with a partner. To begin, go to the OSTEP: Three Easy Pieces website and follow the instructions to download/access the homework code. Then do the homework set at the end of Chapter 7 (the questions from the book are copied below to make it easier for you to submit your work).

Your email address (**hermann@pdx.edu**) will be recorded when you submit this form. Not you? Switch account

* Required

Your Name *

Hermann Yepdjio

Partner's Name (if you worked with a partner)

N/A

Compute the response time and turnaround time when running three jobs of length 200 with the SJF and FIFO schedulers. *

Both SJF and FIFO have the same Average turr

Now do the same but with jobs of different lengths: 100, 200, and300. *

Average turnaround for both SJF and FIFO is (´

Now do the same, but also with the RR scheduler and a time-slice of 1. *

For Jobs (200, 200, 200) the average Turnarou

For what types of workloads does SJF deliver the same turnaroundtimes as FIFO? *

SJF delivers the same turnaround times as FIF

For what types of workloads and quantum lengths does SJF deliverthe same response times as RR? *

If the jobs arrive or are organised in increasing

What happens to response time with SJF as job lengths increase?Can you use the simulator to demonstrate the trend? *

-As job lengths increases, the response time increases.
-Yes it is possible to use the simulator to demonstrate the trend
-ex: for (100,200,3000 average response time = 133.33
for (100,300,400) average response time = 166.67
- for (200,300,400) average response time = 233.33

What happens to response time with RR as quantum lengths increase? Can you write an equation that gives the worst-case response time, given N jobs? *

As quantum lengths increase, response time increases as well.
Worst-case response time for N jobs happens when the jobs are organized in decreasing length order and quantum time >= length(1st job).

Submit