EXERCISE:

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| --- | --- | --- |
| PROCESS | ARRIVAL TIME | BURST TIME |
| P1 | 0.0 | 9 |
| P2 | 0.6 | 5 |
| P3 | 1.0 | 3 |

1. What is the average turnaround time for these process with FCFS scheduling algorithm?

* Average turnaround time for these processes:

(9+ (14-0.6)+ (17-1))/3 = 18.7

1. What is the average turnaround time for these processes with the SJF scheduling algorithm?

* (9 + (12-1) + (17-0.6))/3 = 12.133

1. The SJF algorithm is supposed to improve performance but notice that we choose to run process P1 at time 0 because we did not know that shorter processes would arrive soon. Compute what the average turnaround time will be if the CPU is left idle for the first 1 unit and then SJF scheduling is used. Remember that process during this idle time, so their waiting time may increase. The algorithm could be known as future-knowledge scheduling.

* CPU is left idle:

Average turnaround for these processes:

(19+(9-0.6)+(4-1))/3 = 10.133