CSC 369 Worksheet 4 Solution

August 17, 2020

1. **<u>Notes</u>**

   - **Scheduling:**
     - Is a process at which allows one process to use the CPU while another is on hold, to make full use of CPU

   - **Turnaround Time:**
     - Is a performance metric
     - Is amount of time to execute a particular process [1]

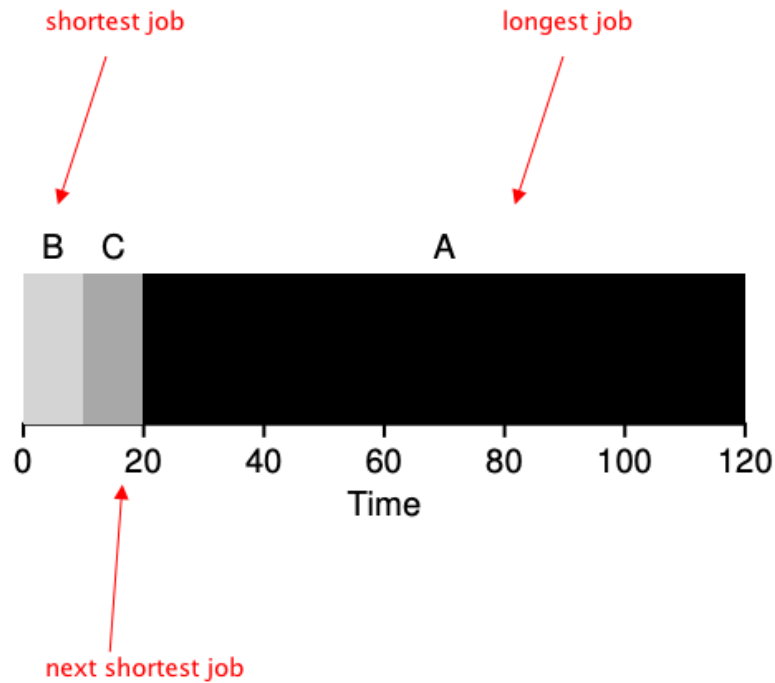$$T_{turnaround} = T_{completion} - T_{arrival} \tag{1}$$

     - $T_{completion} \rightarrow$ Time at which the job completes
     - $T_{arrival} \rightarrow$ Time at which the job arrived in the system

   - **FIFO scheduling algorithm:**
     - Is the most basic scheduling algorithm
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   - **SJF scheduling algorithm:**
     - Is a schduling policy where the shortest job is run first, then the next shortest and so on.

- **Response Time:**
  - Is amount of time from when a request was submitted until the first response is produced [1]

$$T_{response} = T_{firstrun} - T_{arrival} \tag{2}$$

  - $T_{firstrun} \rightarrow$ First time a job is scheduled
  - $T_{arrival} \rightarrow$ Time at which the job arrived in the system

References

1) Old Dominion University, CPU Scheduling link