# CS471: Operating System Concepts
# Fall 2006
# (Lecture: TR 11:25-12:40 PM)
## Homework #2
## Points: 20
# Due: September 14, 2006

**Question 1 [Points 15] Exercise 5.4 using the following data**

| Process | Arrival time | Burst time | Priority |
|---|---|---|---|
| P1 | 5 | 10 | 3 |
| P2 | 2 | 15 | 4 |
| P3 | 9 | 5 | 5 |
| P4 | 15 | 20 | 1 |
| P5 | 12 | 4 | 2 |

**Question 2 [Points 5] Consider the exponential average formula used to predict the length of the next CPU burst of a process. The initial estimate of the CPU burst time is $\tau 0 = 100$ milliseconds and $\alpha = 0.8$. The following are the actual CPU burst observed. t0=80 msec; t1=120 msec; t2=60 msec. Compute $\tau 1$, $\tau 2$, and $\tau 3$.**