

**Tutorial Week 3 – to be discussed Week 5 (Week 4 is public holiday – no lecture)**

Consider the following mix of tasks:

A: compute bound, 2 CPU seconds to complete

B: compute bound, 2 CPU seconds to complete

C: I/O bound, processes 1 input per second from t=0 to t=5 seconds, each input requires 0.1 seconds processing time.

Tasks A, then C start at t=0 (first input arrives at t=0)

Task B starts at t=1.5 second

Context Switching costs 0.1 seconds if task changes, 0 otherwise

Quantum is 0.2 seconds

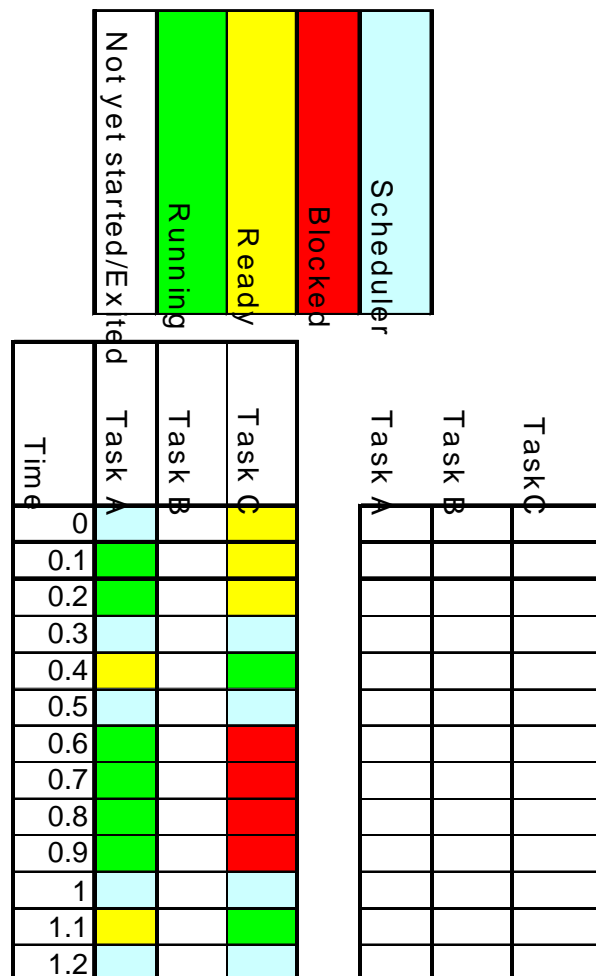
**Question 1:** Draw a diagram showing the state of each process at each time instant until all tasks complete, with following scheduling:

(i) Round Robin

(ii) Priority scheduling, A=priority 1 (lowest), B=2, C=3 (highest)

**Question 2:** Calculate: Average Turnaround Time with each algorithm

Turnaround =(Stop time-Start time)



See Tutorial3.xls for a template you can use to "colour-in" a run-time record.