OS Scheduler - Basic Agorithms

Implement different OS scheduling algorithms. The program should take as imput: no of processes, (arrival time, burstime > of each process. 9t should output the schedule, average completion time & average winting time & each scheduling algorithm.

(# of processes)

0,5
1,3
2

(time quanta for Round Robin scheduling)
FCFS

FCFS algorithm:

0-5:P1 5-8:P2

Averge completion time: 6:5 Averge wanting time: 2 $\begin{array}{c|c}
\hline
P1 & +2 \\
\hline
5 & 8 & Time \\
\hline
(5+8)/2 = 6.5 \\
\hline
(0+4)/2 = 2
\end{array}$

Round Robin algorithm:

0-2: Pi 2-4: Pi 4-6: Pi 6-7: Pi 7-8: Pi

Average completion-time: 7.5 Average waiting thre 3.5

 $\frac{(8+7)/2}{(2+1)} = 7.5$ $\frac{(2+1)}{2} = 3.5$