Worksheet #1

Calculate the average wait time for a list of process with service times 16, 12, 3, 5, 10, 1 all arrives arrives at 0.

$$P_3 \Rightarrow 5$$

FCFS

Average

Mair =
$$0+16+28+31+36+46 = 157 = 26.17$$

SJF

Re-order Process => Note the process names also get re-ordered.

$$R_3 = 6 + (16-8) + (24-18) = 20$$

 $P_4 = 8 + (18-10) + (25-20) + (31-27) + (37-33) = 29$

$$P_0 = 41 - (5 \times 2) = 31$$
 $P_0 = 43 - (6 \times 2) = 31$

$$p_2 = 15 - (0 \times 2) = 13$$

$$P_{2} = 15 - (1 \times 2) = 13$$

$$P_{3} = 24 - (2 \times 2) = 20$$

at CFS performs the worst in this situation because a long process can delay all processes (even very short processes).

& SIF gives optimal average which times but it is difficult to predict service fines and can cause starvation

Lound robin performs between STFxFCFS. It aliments removes the sharustion visue of SJF. If the quantum in too long it mill generate excess context switches. will perform of closer to FCFS. Reducing the quantur