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Worksheet 1 First Come First Serve Algorithm

1. Problem

JID	AT (Arrival Time)	BT (Burst Time)
J1	0	4
J2	1	5
J3	3	5
J4	6	3
J5	8	6
J6	12	2

Required

a. Ready Queue

J1 ✗	J2 ✗	J3 ✗	J4 ✗	J5 ✗	J6 ✗
4	5	5	3	6	2

b. Gantt Chart

J1	J2	J3	J4	J5	J6
0	4	9	14	17	23 25

c. Turnaround and waiting time

$TT = FT - AT$

$J1 = 4 - 0 = 4$

$J2 = 9 - 1 = 8$

$J3 = 14 - 3 = 11$

$J4 = 17 - 6 = 11$

$J5 = 23 - 8 = 15$

$J6 = 25 - 12 = 13$

$WT = TT - BT$

$J1 = 4 - 4 = 0$

$J2 = 8 - 5 = 3$

$J3 = 11 - 5 = 6$

$J4 = 11 - 3 = 8$

$J5 = 15 - 6 = 9$

$J6 = 13 - 2 = 11$

d. Average Turnaround and waiting time

ATT = 4 + 8 + 11 + 11 + 15 + 13 = 62/6 = **10.33 ms**

AWT = 0 + 3 + 6 + 8 + 9 + 11 = 37/6 **= 6.16 ms**