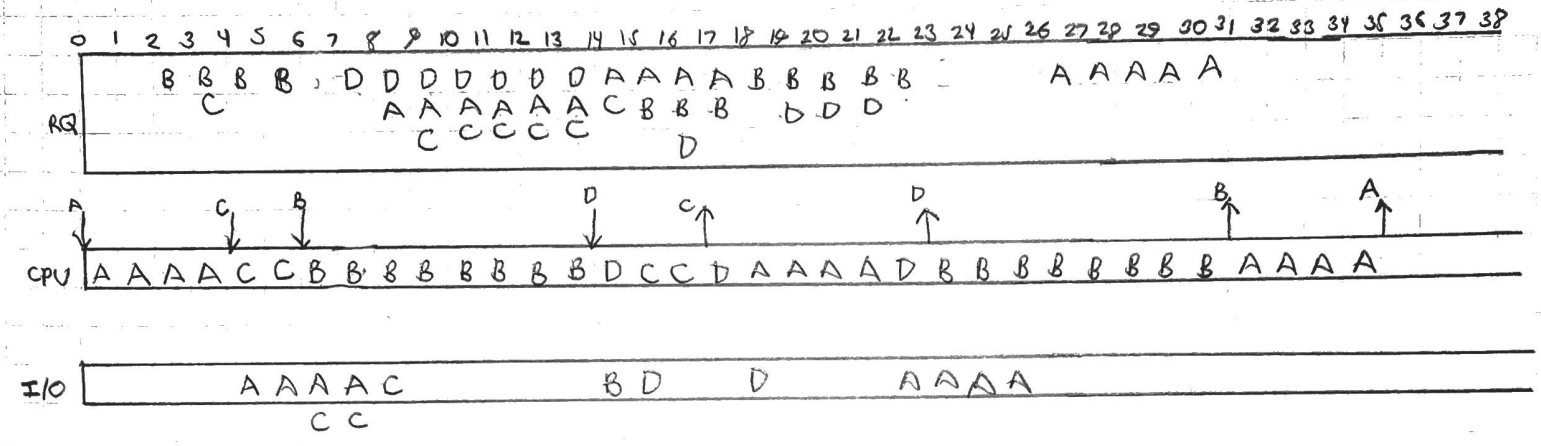
SHORTEST PROCESS FIRST (NON-PREEMPTIVE)

PROCESS	ARRIVAL TIME	$EXEC_1$	I/O_1	$EXEC_2$	I/O_2	$EXEC_3$
A	0 ✓	4 ✓	4 ✓	4 ✓	4 ✓	4 ✓
B	2 ✓	8 ✓	1 ✓	8 ✓	/	/
C	3 ✓	2 ✓	1 ✓	2 ✓	/	/
D	7	1 ✓	1 ✓	1 ✓	1 ✓	1 ✓



METRICS:

CPU UTILIZATION $= \frac{35}{35} = 100\%$

CPU THROUGHPUT $= \frac{4}{35} = 0.11$

$TAT_A = 35 - 0 = 35$

$TAT_B = 31 - 2 = 29$

$TAT_C = 17 - 3 = 14$

$TAT_D = 23 - 7 = 16$

TAT AVERAGE $= \frac{(35+29+14+16)}{4} = 23.5$

WAIT $TIME_A = 10 + 5 = 15$

WAIT $TIME_B = 4 + 8 = 12$

WAIT $TIME_C = 1 + 6 = 7$

WAIT $TIME_D = 7 + 1 + 3 = 11$

WAIT TIME AVERAGE $= \frac{45}{4} = 11.25$

RESPONSE $TIME_A = 0$

RESPONSE $TIME_B = 4$

RESPONSE $TIME_C = 1$

RESPONSE $TIME_D = 7$

RESPONSE TIME AVERAGE $= 3.0$