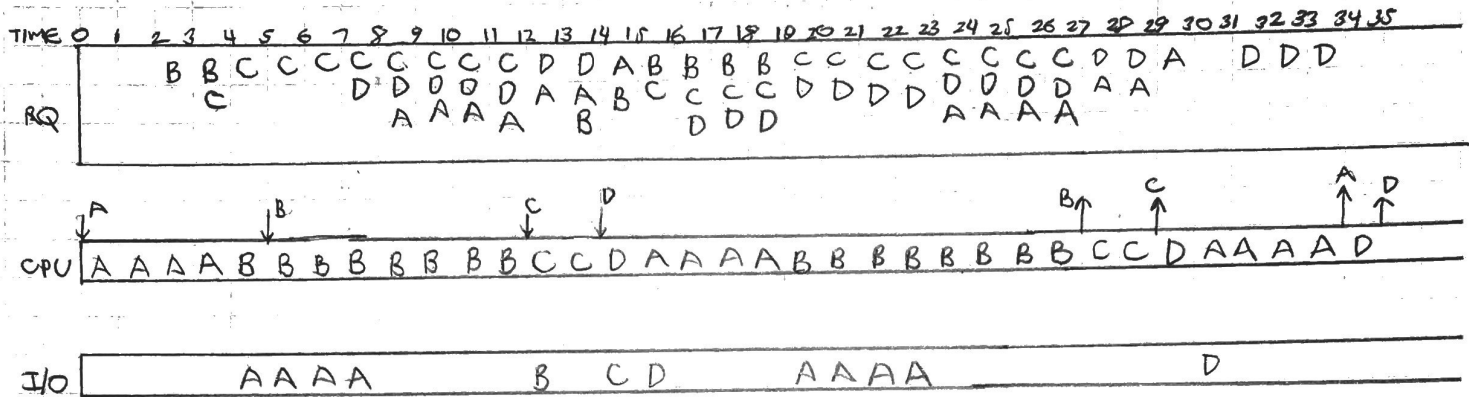


# FIRST-COME FIRST-SERVE (NON-PREEMPTIVE)

PROCESS	ARRIVAL TIME	EXEC <sub>1</sub>	I/O <sub>1</sub>	EXEC <sub>2</sub>	I/O <sub>2</sub>	EXEC <sub>3</sub>
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:

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

$$\text{THROUGH PUT} = \frac{4}{35} = 0.11$$

$$\text{TAT}_A = 34 - 0 = 34$$

$$\text{TAT}_B = 27 - 2 = 25$$

$$\text{TAT}_C = 29 - 3 = 26$$

$$\text{TAT}_D = 35 - 7 = 28$$

$$\text{TAT}_{\text{AVERAGE}} = \frac{(34 + 25 + 26 + 28)}{4} = 28.25$$

$$\text{WAIT TIME}_A = 7 + 7 = 14$$

$$\text{WAIT TIME}_B = 2 + 6 = 8$$

$$\text{WAIT TIME}_C = 9 + 12 = 21$$

$$\text{WAIT TIME}_D = 7 + 13 + 3 = 23$$

$$\text{WAIT TIME AVERAGE} = \frac{(14 + 8 + 21 + 23)}{4} = 16.5$$

$$\text{RESPONSE TIME}_A = 0$$

$$\text{RESPONSE TIME}_B = 2$$

$$\text{RESPONSE TIME}_C = 9$$

$$\text{RESPONSE TIME}_D = 7$$

$$\text{RESPONSE TIME AVERAGE} = 4.5$$