

SCHEDULING ALGORITHM VECTURE EXERCISES

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

ALGORITHM	TYPE
FIRST-COME FIRST SERVE	NON-PREEMPTIVE
SHORTEST PROCESS FIRST (SPF)	NON-PREEMPTIVE
SHORTEST REMAINING TIME FIRST	PREEMPTIVE
PRIORITY	PREEMPTIVE
ROUND-ROBIN (RR)	PREEMPTIVE
LOTTERY	NON-PREEMPTIVE

METRICS:

- CPU UTILIZATION % \Rightarrow % OF TIME CPU BUSY.
- THROUGHPUT \Rightarrow # JOBS / CPU
- TURN AROUND TIME PER PROCESS, AVERAGE \Rightarrow TIME FINISH - TIME_{ARRIVAL}
- WAIT TIME PER PROCESS, AVERAGE \Rightarrow ^{*TOTAL*} TIME IN THE READY QUEUE.
- RESPONSE TIME PER PROCESS, AVERAGE \Rightarrow TIME IN RD FOR FIRST RUN.