

# Process Scheduling solver

Danger alert This front-end is absolute! use: [nicomedes.assistedcoding.eu](https://nicomedes.assistedcoding.eu) instead!!!

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Number of queues: 1

Queue #1: Scheduling algorithm: First come first served (FIFO/FC)

Quantum: 0

Context switch latency: 0

Generate: ☐ ticks ☐ Summary ☒ Avg TT ☒ Graph

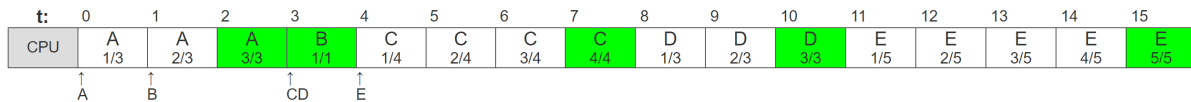
Arrival times: 0 1 3 3 4

Service times: 3 1 4 3 5

Priority (optional): priority will only be used if the scheduling algorithm is set to 'Priority'  
examples: #1 #2 #3 #4

schedule:

Solution



Order of service (table):

Process	Arrival	Service	Priority	Started	Completion	turnaround time (TAT)	waiting time (WAT)
A	0	3	0	0	3	3	0
B	1	1	0	3	4	3	2
C	3	4	0	4	8	5	1
D	3	3	0	8	11	8	5
E	4	5	0	11	16	12	7
Avg:	-	3.2	-	-	-	6.2	3

D	3	3	0	8	11	8	5
E	4	5	0	11	16	12	7
Avg:	-	3.2	-	-	-	6.2	3

Order of service (descriptive):

- Process A: arrived at 0 ms, service time:3 priority: 0 completed at 3:  $TAT_A = 3$  ms and  $WAT_A = 0$  ms
- Process B: arrived at 1 ms, service time:1 priority: 0 completed at 4:  $TAT_B = 3$  ms and  $WAT_B = 2$  ms
- Process C: arrived at 3 ms, service time:4 priority: 0 completed at 8:  $TAT_C = 5$  ms and  $WAT_C = 1$  ms
- Process D: arrived at 3 ms, service time:3 priority: 0 completed at 11:  $TAT_D = 8$  ms and  $WAT_D = 5$  ms
- Process E: arrived at 4 ms, service time:5 priority: 0 completed at 16:  $TAT_E = 12$  ms and  $WAT_E = 7$  ms

Statistics:

- First request arrived at: 0 ms
- Last request completed at: 16 ms
- Total service time for all processes = 16 ms
- Average turnaround time (ATAT) = 6.2 ms
- Average waiting time (AWAT) = 3 ms

CPU State

Process	Level	Start	Stop	Q1	TAT
A	1	0	3	{B <sub>0/1</sub> , C <sub>0/4</sub> , D <sub>0/3</sub> }	3
B	1	3	4	{C <sub>0/4</sub> , D <sub>0/3</sub> , E <sub>0/5</sub> }	3
C	1	4	8	{D <sub>0/3</sub> , E <sub>0/5</sub> }	5
D	1	8	11	{E <sub>0/5</sub> }	8
E	1	11	16		12



