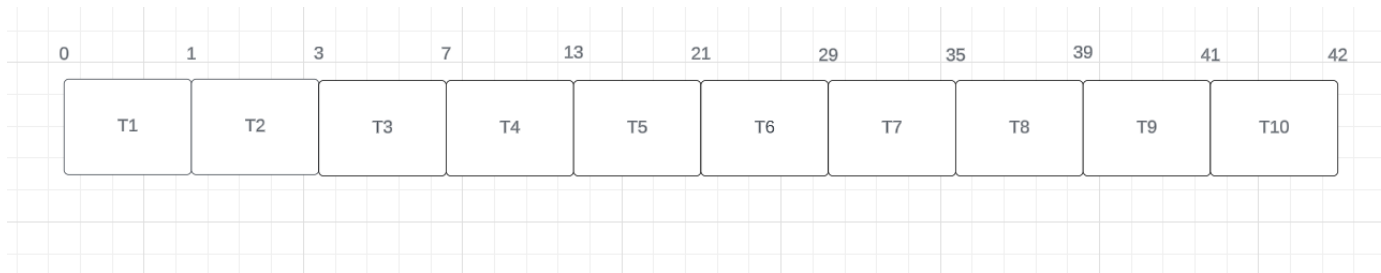


GANT CHART for FCFS SCHEDULE:



Process ID	Arrival Time	Burst Time
T1	0	1
T2	0	2
T3	0	4
T4	0	6
T5	0	8
T6	11	8
T7	11	6
T8	11	4
T9	11	2
T10	11	1

Arrival Time is calculated from the output of the TEST FCFS

Process ID	Completion Time	Turnaround Time	Waiting Time
T1	1	1-0=1	1-1=0
T2	3	3-0=3	3-2=1
T3	7	7-0=7	7-4=3
T4	13	13-0=13	13-6=7
T5	21	21-0=21	21-8=13
T6	29	29-11=18	18-8=10
T7	35	35-11=24	24-6=18
T8	39	39-11=28	28-4=24
T9	41	41-11=30	30-2=28
T10	42	42-11=31	31-1= 30

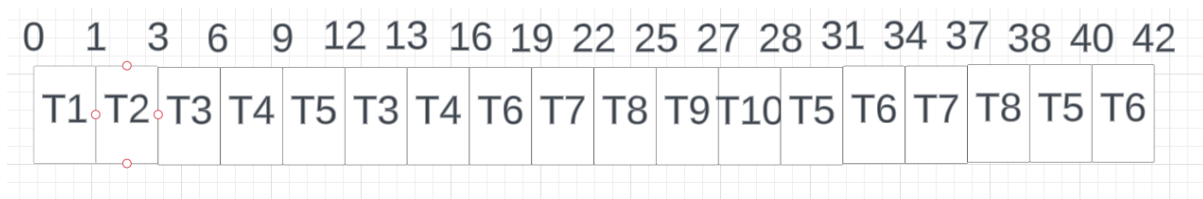
Turnaround time = Completion time – Arrival Time

Waiting Time = Turnaround time – Burst Time

T10 has the longest waiting time of 30 units and T1 has the shortest waiting time 0 units.

Average Waiting Time =(0 + 1 +3 +7 +13 +10 +18 +24 +28 +30) /10 =134/10 = 13,4 units

GANT CHART FOR RRSCHEDULE:



$$3 + (12 - 6) = 9$$

Process ID	Waiting Time
T1	0-0-0 = 0
T2	1= 1
T3	3+(12-6) = 9
T4	6+(13-9) = 10
T5	9+(28-12) + (38-31) = 32
T6	16+(31-19) +(40-34) = 34
T7	19+(34-22) = 31
T8	22+(37-25) = 34
T9	25
T10	27
SUM:	202/10 = 20,2

The task which had the longest waiting time was T5 and T8 and T1 had the shortest waiting time

Average waiting Time: 20.2 units