

3.1 Round Robin scheduling

Turnaround time = Completion time - Arrival time

Waiting time = Turnaround time - Burst time

T1 Waiting time = $(1 - 0) - (1) = 0$

T2 Waiting time = $(3 - 0) - (2) = 1$

T3 Waiting time = $(13 - 0) - (4) = 9$

T4 Waiting time = $(16 - 0) - (6) = 10$

T5 Waiting time = $(40 - 0) - (8) = 32$

T6 Waiting time = $(42 - 11) - (8) = 23$

T7 Waiting time = $(37 - 11) - (6) = 20$

T8 Waiting time = $(38 - 11) - (4) = 23$

T9 Waiting time = $(27 - 11) - (2) = 14$

T10 Waiting time = $(28 - 11) - (1) = 15$

Longest: T5

Shortest: T1

Average = $(0+1+9+10+32+23+18+33+14+15) / 10 = 15.5$

3.2 First Come First Serve scheduling

Turnaround time = Completion time - Arrival time

Waiting time = Turnaround time - Burst time

T1 Waiting time = $(1 - 0) - 1 = 0$

T2 Waiting time = $(3 - 0) - 2 = 1$

T3 Waiting time = $(7 - 0) - 4 = 3$

T4 Waiting time = $(13 - 0) - 6 = 7$

T5 Waiting time = $(31 - 0) - 8 = 23$

T6 Waiting time = $(29-11) - 8 = 10$

T7 Waiting time = $(35-11) - 6 = 18$

T8 Waiting time = $(39-11) - 4 = 24$

T9 Waiting time = $(41-11) - 2 = 28$

T10 Waiting time = $(42-11) - 1 = 30$

Longest: T10

Shortest: T1

Average = $(0+1+3+7+23+10+18+24+28+30) / 10 = 14.4$

