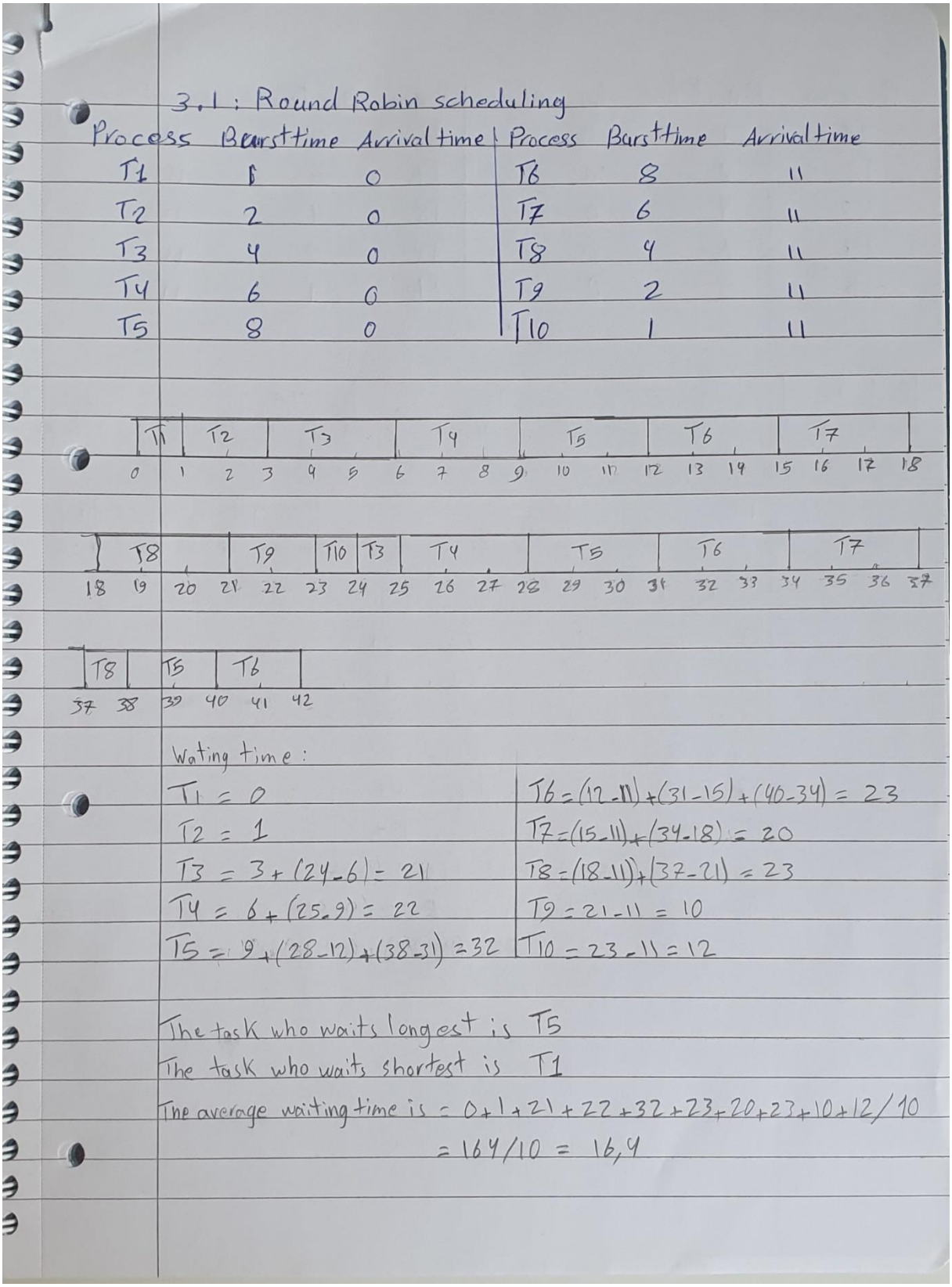
DAT103-oblig1: Student number: 671433

Task 3:

3.1: Round Robin scheduling:



3.1 : Round Robin scheduling

Process	Bursttime	Arrivaltime	Process	Bursttime	Arrivaltime
T1	1	0	T6	8	11
T2	2	0	T7	6	11
T3	4	0	T8	4	11
T4	6	0	T9	2	11
T5	8	0	T10	1	11

Wating time :

$T_1 = 0$

$T_2 = 1$

$T_3 = 3 + (24-6) = 21$

$T_4 = 6 + (25-9) = 22$

$T_5 = 9 + (28-12) + (38-31) = 32$

$T_6 = (12-11) + (31-15) + (40-34) = 23$

$T_7 = (15-11) + (34-18) = 20$

$T_8 = (18-11) + (37-21) = 23$

$T_9 = 21-11 = 10$

$T_{10} = 23-11 = 12$

The task who waits longest is T5

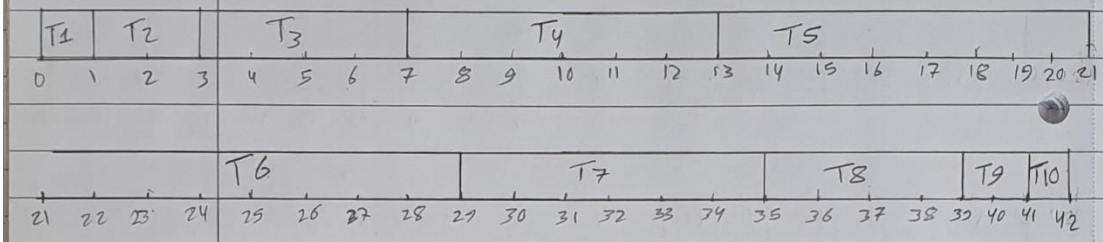
The task who waits shortest is T1

The average waiting time is $= 0+1+21+22+32+23+20+23+10+12/10$

$= 164/10 = 16,4$

3.2: First Come First Serve scheduling:

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



Waiting time

T1 = 0 T6 = 21

T2 = 1 T7 = 29

T3 = 3 T8 = 35

T4 = 7 T9 = 39

T5 = 13 T10 = 41

The task who wait longest is T10

The task who wait shortest is T1

The average waiting time is = 0 + 1 + 3 + 7 + 13 + 21 + 29 + 35 + 39 + 41 / 10

= 189 ÷ 10 = 18,9