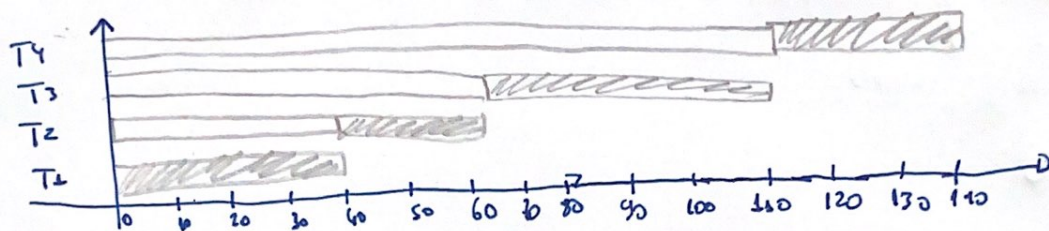


## Exercício 2 - Escalonamento de processos

1.

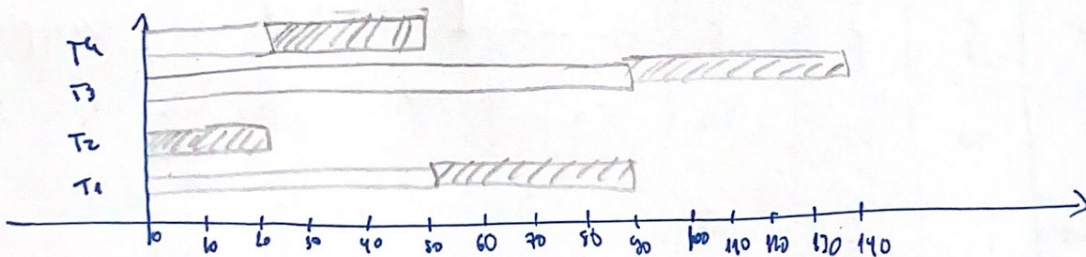
Tarefa	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	T <sub>4</sub>
Ingresso	0	0	0	0
duracao	40	20	50	30
prioridade	4	2	1	3

d) FCFS (FIFO) *semelhante aos slides, não inclui o tempo de troca de contexto nos graficos e seguir*



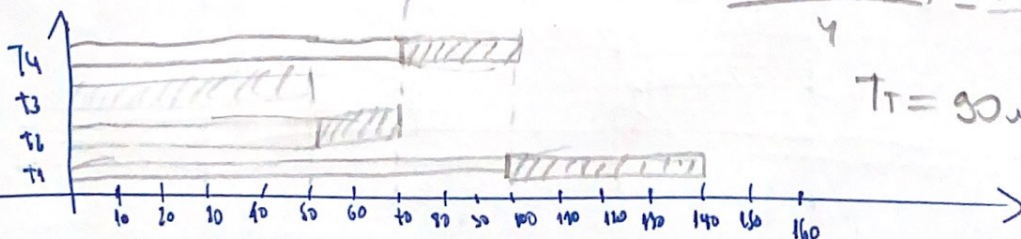
$$T_T = \frac{t_T(T_1) + \dots + t_T(T_n)}{4} = \frac{40 + 60 + 110 + 140}{4} = 82,5 \text{ m.t}$$

b) SJF



$$T_T = \frac{t_T(T_1) + \dots + t_T(T_n)}{4} = \frac{20 + 50 + 90 + 140}{4} = 75 \text{ m.t}$$

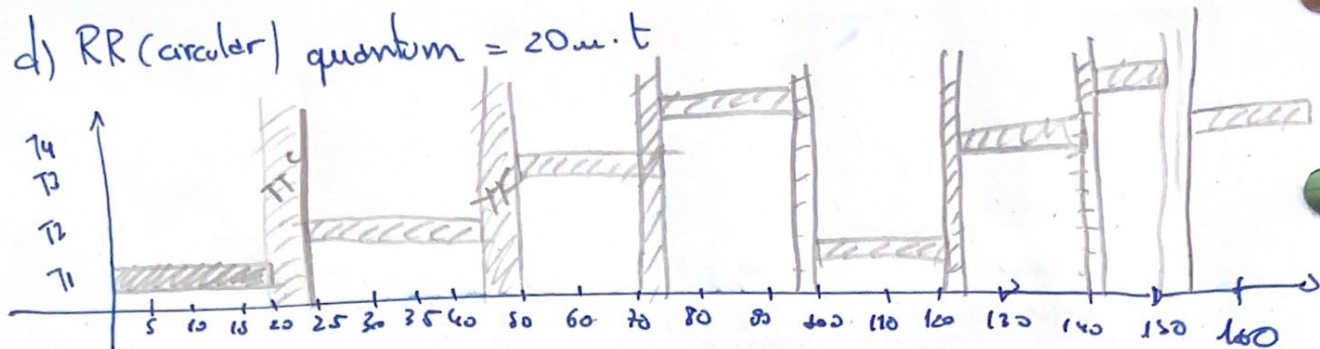
c) Prioridade  $\rightarrow$  competição



$$T_T = \frac{t_T(T_1) + \dots + t_T(T_n)}{4} = \frac{140 + 70 + 20 + 100}{4}$$

$$T_T = 90 \text{ m.t}$$

d) RR (circular) quantum = 20 u.t



↳ as barras verticais representam TTC

$$T_T = \frac{120 + 45 + 165 + 150}{4} = 42.5 \text{ u.t}$$

e) Tempo de espera  
25 u.t

1)  $t_1$ : execução

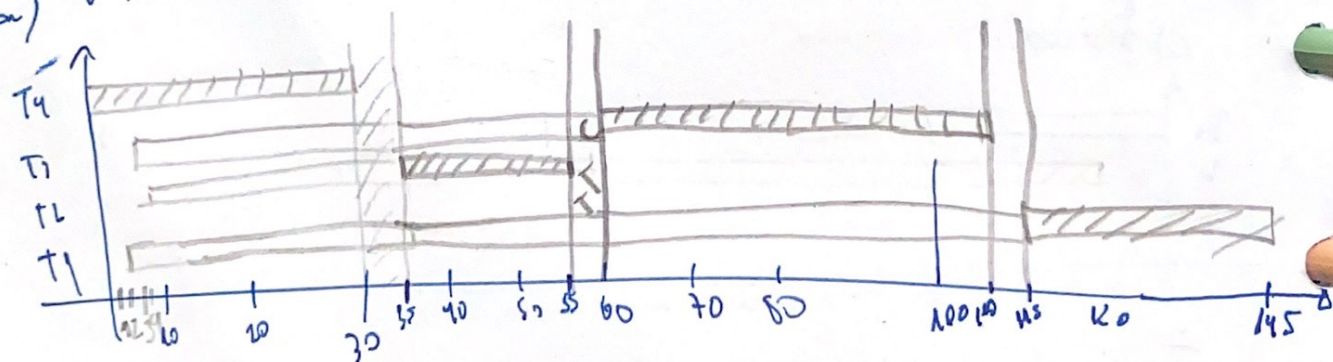
$t_2, t_3$  e  $t_4$ : prontos

②	t	$t_1$	$t_2$	$t_3$	$t_4$
	ingresso	4	1	3	0
	tempo	40	20	50	30
	prioridade	4	2	1	3

Ordem de temp.

40, 20, 30

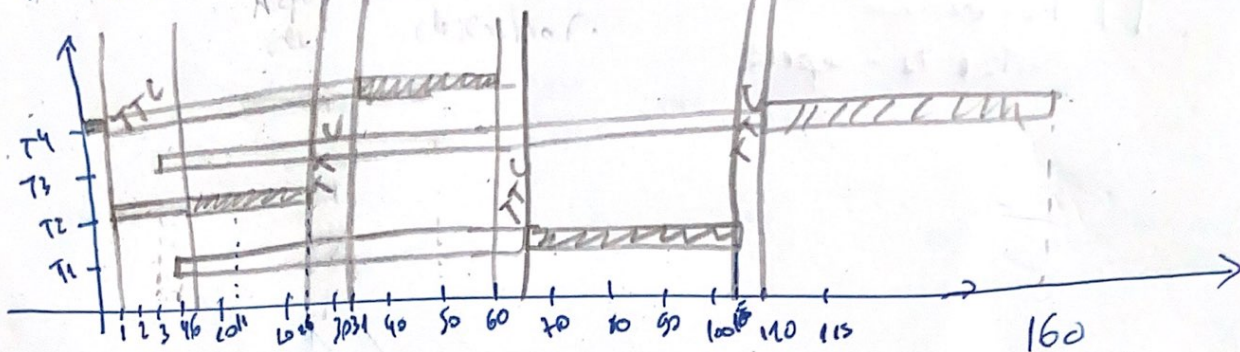
a) FIFO



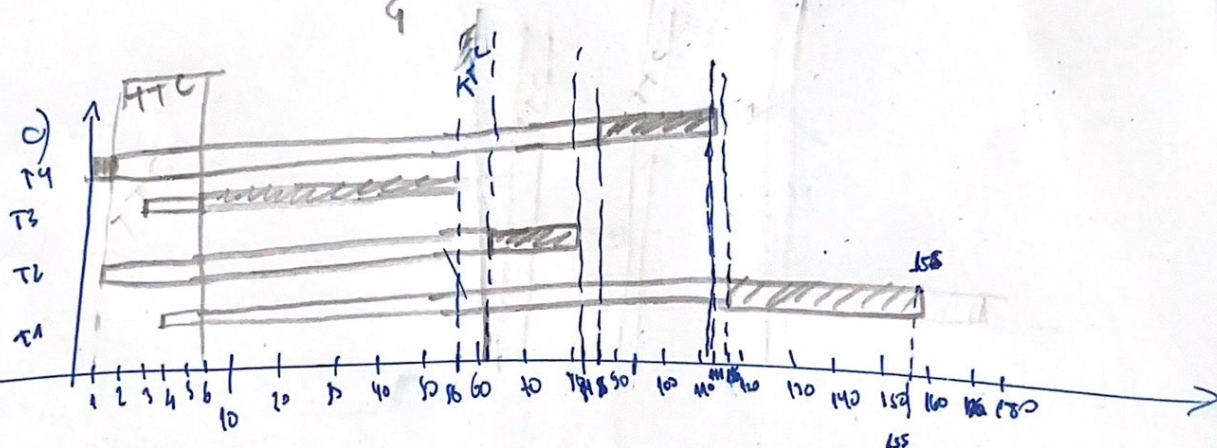


$$T_w = \frac{115 + 35 + 60}{4} = 52.5 \text{ u.t}$$

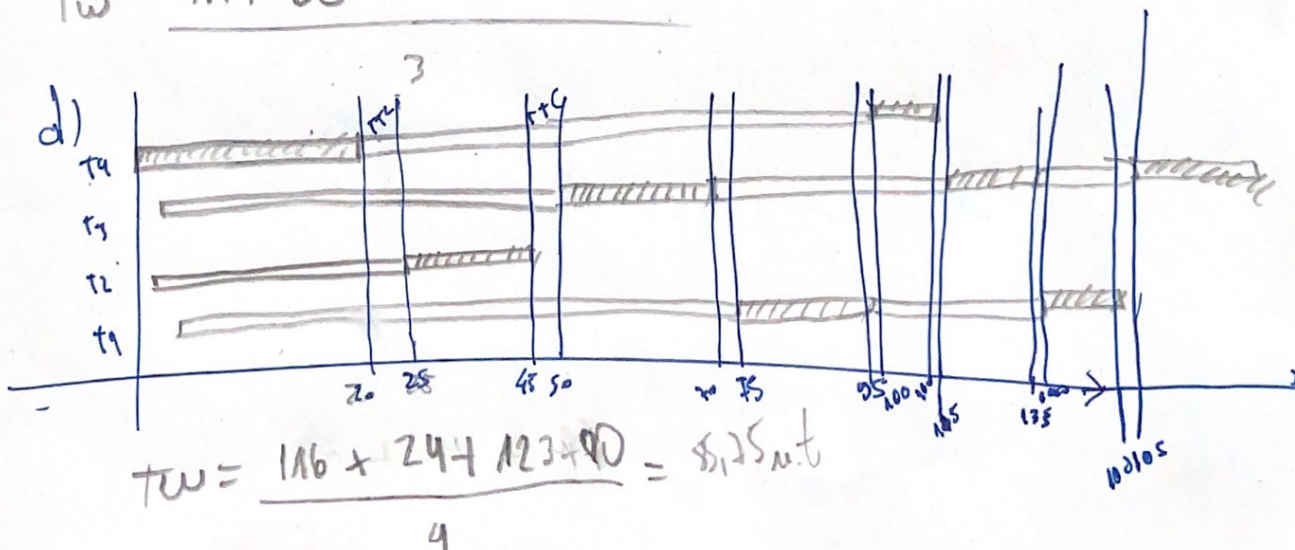
b) SRT K



$$T_w = \frac{61 + 5 + 102 + 70}{4} = 59.5 \text{ u.t}$$



$$T_w = \frac{111 + 60 + 53 + 75}{4} = 59.75 \text{ u.t}$$



$$T_w = \frac{116 + 24 + 123 + 90}{4} = 51.25 \text{ u.t}$$

$$e) T_w = 25 - 1 = 24 \text{ w. t}$$

4)  $T_u$  - exercício  
 $T_1, T_2$  e  $T_d$  - espera