Sistemas Operacionais

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FIFO (First In First Out)

	P1		P2		P3		P4		P5	

0   8 $^{+2}$ 10   22 $^{+2}$ 24   44 $^{+2}$ 46   52 $^{+2}$ 54   68
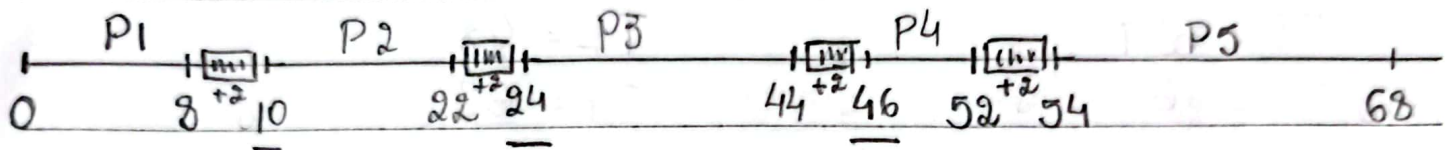
P1
- TE = 0
- TP = 8

P3
- TE = 24
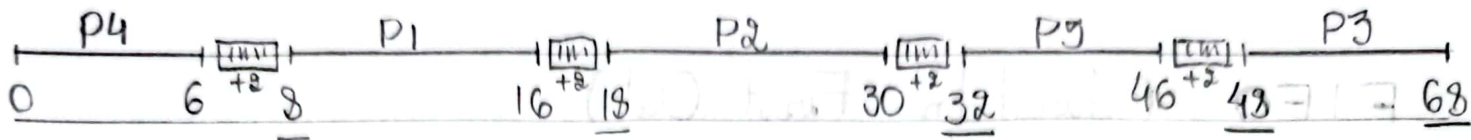- TP = 44

P2
- TE = 10
- TP = 22

P4
- TE = 46
- TP = 52

P5
- TE = 54
- TP = 68

TME: $(0 + 10 + 24 + 46 + 54)/5 = \dfrac{134}{5} = 26,8 \; u.t$

TMP: $(8 + 22 + 44 + 52 + 68)/5 = \dfrac{194}{5} = 38,8 \; u.t$

SJF (Shortest Job First)

P4		P1		P2		P5		P3
0	6 +2 8		16 +2 18		30 +2 32		46 +2 48	68

P1
$$TE = 8$$
$$TP = 16$$

P3
$$TE = 48$$
$$TP = 68$$

P2
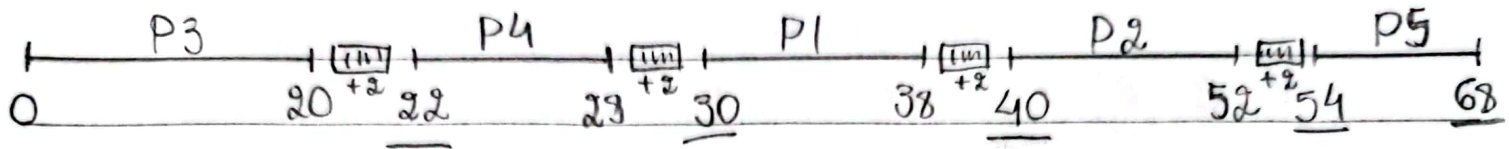$$TE = 18$$
$$TP = 30$$

P4
$$TE = 0$$
$$TP = 6$$

P5:
$$TE = 32$$
$$TP = 46$$

$$TME = (0 + 8 + 18 + 32 + 48)/5 = \frac{106}{5} = 21{,}2 \ u.t$$

$$TMP = (6 + 16 + 30 + 46 + 68)/5 = \frac{166}{5} = 33{,}2 \ u.t$$

PRIORIDADE

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  |——— P3 ———|+[iii]|+|——— P4 ———|+[iii]|+|——— P1 ———|+[iii]|+|——— P2 ———|+[iii]|+|— P5 —|
  0        20 +² 22      23 +² 30      38 +² 40      52 +² 54        68
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P1
TE = 30
TP = 38

P3
TE = 0
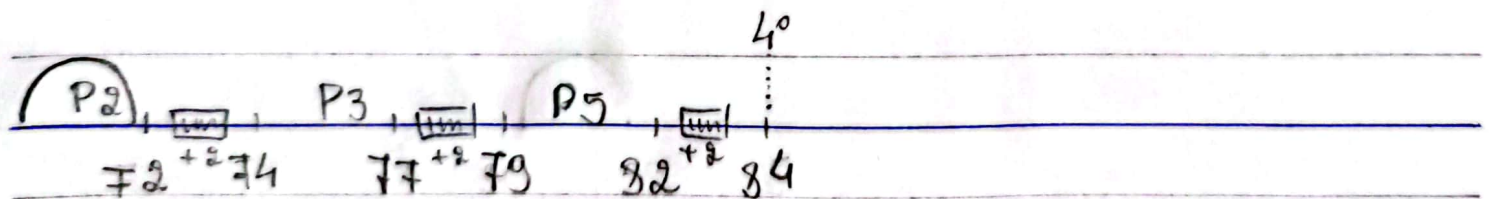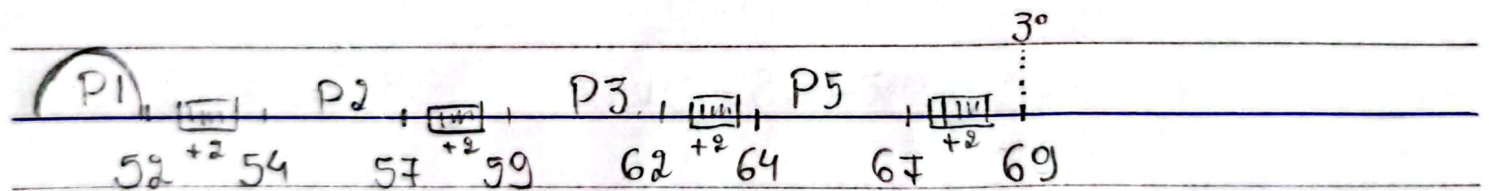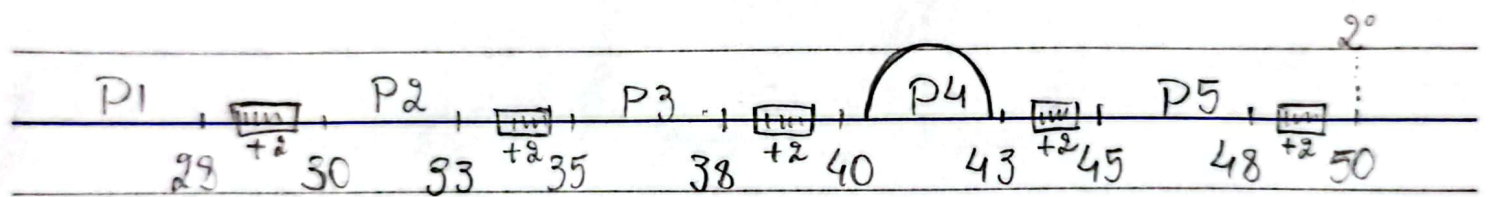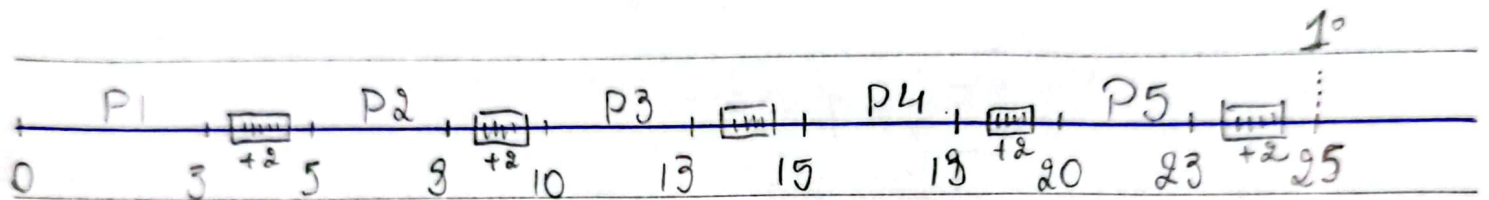TP = 20

P2
TE = 40
TP = 52

P4
TE = 22
TP = 28

P5
TE = 54
TP = 68

$$TME = (0 + 22 + 30 + 40 + 54)/5 = \frac{146}{5} = 29,2 \ u.t$$

$$TMP = (20 + 28 + 38 + 52 + 68)/5 = \frac{206}{5} = 41,2 \ u.t$$

Round Robin

	1°	2°	3°	4°	5°	6°	7°
P1 :	8 − 3 = 5	− 3 = 2	− 2 = 0				
P2 :	12 − 3 = 9	− 3 = 6	− 3 = 3	− 3 = 0			
P3 :	20 − 3 = 17	− 3 = 14	− 3 = 11	− 3 = 8	− 3 = 5	− 3 = 2	− 2 = 0
P4 :	6 − 3 = 3	− 3 = 0					
P5 :	14 − 3 = 11	− 3 = 8	− 3 = 5	− 3 = 2	− 2 = 0		

1°

P1 | P2 | P3 | P4 | P5

0   3 +2 5   8 +2 10   13   15   19 +2 20   23 +2 25

2°

P1 | P2 | P3 | P4 | P5

28 +2 30   33 +2 35   38 +2 40   43 +2 45   48 +2 50

3°

P1 | P2 | P3 | P5

52 +2 54   57 +2 59   62 +2 64   67 +2 69

4°

P2 | P3 | P5

72 +2 74   77 +2 79   82 +2 84

5°

P3 | P5

87 +2 89   91 +2 93

6°/7°

P3

98
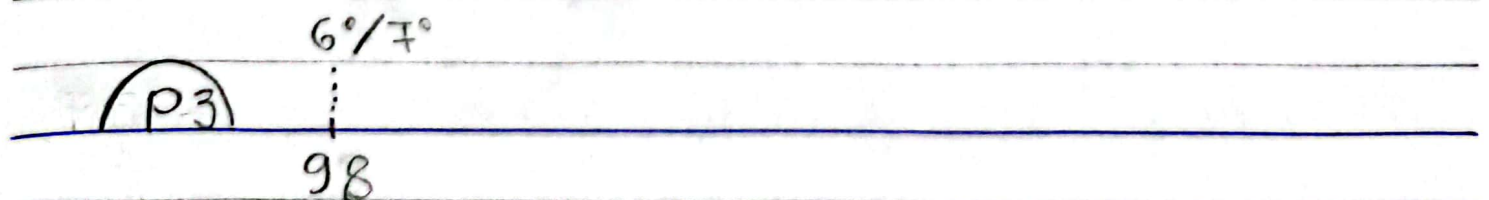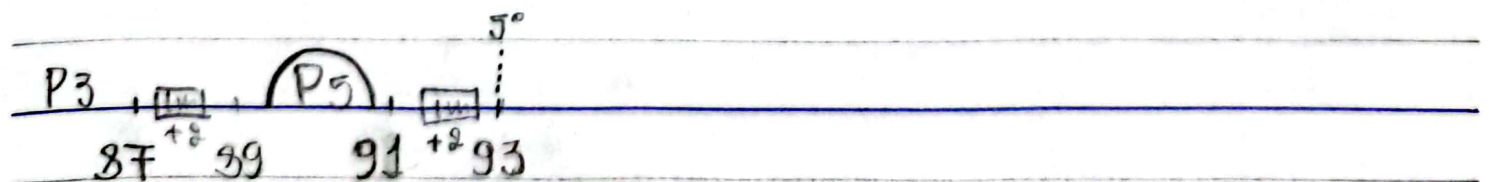
P1
TE = 50
TP = 52

P3
TE = 93
TP = 98 .

P2
TE = 69
TP = 72

P4
TE = 40
TP = 43

P5
TE = 89
TP = 91

TME: $(50 + 69 + 93 + 40 + 89) / 5 = \dfrac{341}{5} = 68,2 \, u.t$

TMP: $(52 + 72 + 98 + 43 + 91) / 5 = \dfrac{356}{5} = 71,2 \, u.t$