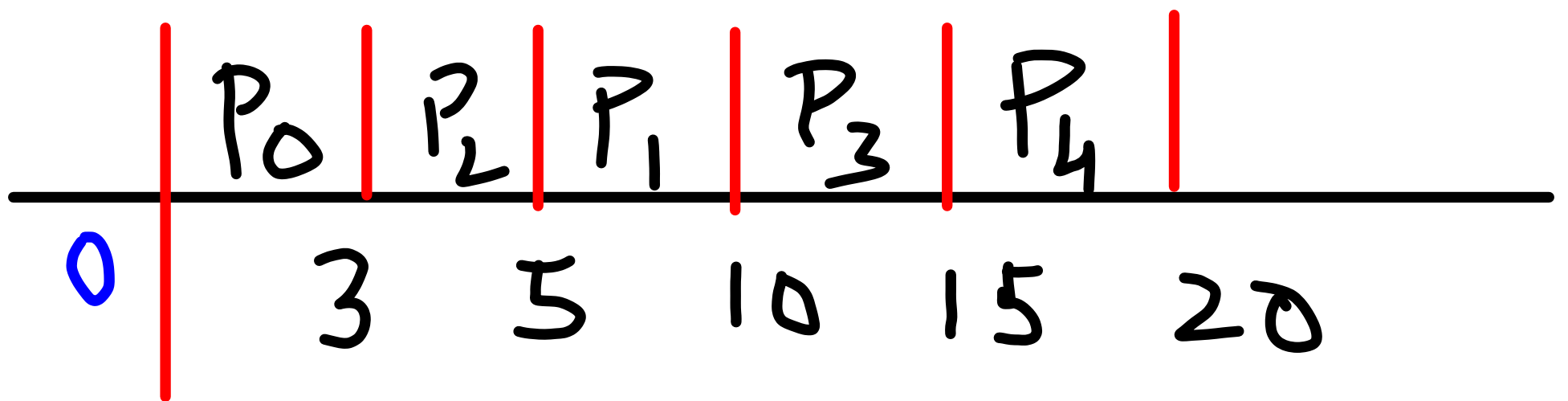


57 F (non-Pre-emptive)

Process	A7	B7
$P_0$	0	3
$P_1$	1	5
$P_2$	3	2
$P_3$	9	5
$P_4$	12	5



Formula

$$TT = CT - AT$$

$$WT = TT - BT$$

$$RST = \text{First instance.}$$

AT of Process

P	AT	BT	CT	TAT	WT	RST
---	----	----	----	-----	----	-----

P <sub>0</sub>	0	3	3	3	0	0
----------------	---	---	---	---	---	---

P <sub>1</sub>	1	5	10	9	4	4
----------------	---	---	----	---	---	---

P <sub>2</sub>	3	2	5	2	0	0
----------------	---	---	---	---	---	---

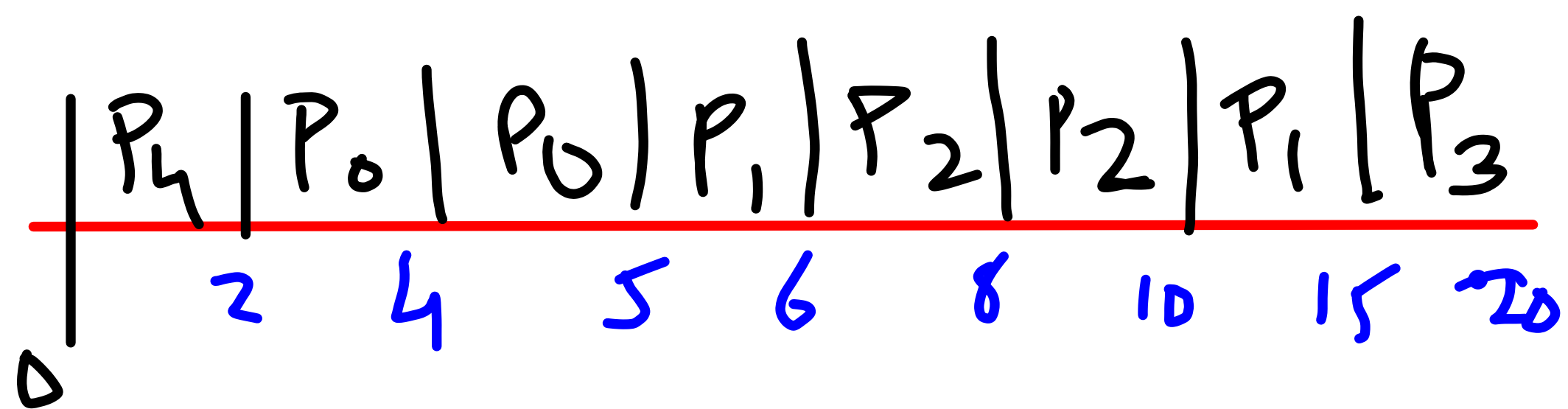
P <sub>3</sub>	9	5	15	6	1	1
----------------	---	---	----	---	---	---

P <sub>4</sub>	12	5	20	8	3	3
----------------	----	---	----	---	---	---

5.6ms	1	1.6ms
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# SJF PRE-EMPTIVE

Process	AT	BT
$P_0$	2	3
$P_1$	4	6
$P_2$	6	4
$P_3$	8	5
$P_4$	0	2



P	AT	BT	CT	TAT	WT	RST
---	----	----	----	-----	----	-----

P <sub>0</sub>	2	3	5	3	0	0
----------------	---	---	---	---	---	---

P <sub>1</sub>	4	6	15	11	5	1
----------------	---	---	----	----	---	---

P <sub>2</sub>	6	4	10	4	0	0
----------------	---	---	----	---	---	---

P <sub>3</sub>	8	5	20	12	7	7
----------------	---	---	----	----	---	---

P <sub>4</sub>	0	2	2	2	0	0
----------------	---	---	---	---	---	---

$$\frac{32}{5} = 6.4 \text{ ms}$$

$$\frac{12}{5} = 2.4 \text{ ms}$$

# Priority Scheduling

- Pre-emptive mode

P	Priority	AT	BT
1	2 (L)	0	4
2	4	1	2
3	6	2	3
4	10	3	5
5	8	4	1
6	12 (H)	5	4
7	9	6	6

	$P_1$	$P_2$	$P_3$	$P_4$	$P_5$	$P_6$	$P_7$	$P_8$	$P_9$	$P_{10}$	$P_{11}$	$P_{12}$	$P_{13}$	$P_{14}$	$P_{15}$	$P_{16}$	$P_{17}$	$P_{18}$	$P_{19}$	$P_{20}$	$P_{21}$	$P_{22}$	$P_{23}$	$P_{24}$	$P_{25}$
0	1	2	3	5	9	12	18	19	21	22	25														

at  $t=9$ , all processes arrived to the system

$P_1 \quad P_2 \quad P_3 \quad P_4 \quad P_5 \quad P_7$

Priority 2 4 6 10 8 9

RBT - 3 1 2 3 1 6

P	Priority	AI	BT	CT	TT	WT	RST
P <sub>1</sub>	2	0	4	25	25	21	0
P <sub>2</sub>	4	1	2	22	21	19	0
P <sub>3</sub>	6	2	3	21	19	16	0
P <sub>4</sub>	10	3	5	12	9	4	0
P <sub>5</sub>	8	4	1	19	15	14	14
P <sub>6</sub>	12	5	4	9	4	0	0
P <sub>7</sub>	9	6	6	18	12	6	6



non-preemptive.

P	Priority	AT	BT
P <sub>1</sub>	2(L)	0	4
P <sub>2</sub>	4	1	2
P <sub>3</sub>	6	2	3
P <sub>4</sub>	10	3	5
P <sub>5</sub>	8	4	1
P <sub>6</sub>	12(H)	5	4
P <sub>7</sub>	9	6	6

	$P_1$	$P_4$	$P_6$	$P_7$	$P_5$	$P_3$	$P_2$
0	4	9	13	19	20	23	25

$t=9$

b/w the time  $t=0-4$

$P_2 P_3 P_5 P_6 P_7$

$P_2 P_3 P_4 P_6$

4 6 8 12 9 Priority-4 6 10 8

2 3 1 4 6 -BT-2 3 5 4