

# Process Scheduling Algorithms

First-come, First-served (FCFS)  
Shortest remaining time next (SRTN)



## Process Scheduling

- The OS decides which process to run next

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Sorted Arrival time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Sorted Arrival time



No sorting algorithm is needed

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

OS has to decide which process to run next?

## Process Scheduling Algorithm

- The decision is made based on different criteria
- Each Scheduling algorithm has different criteria

First-come, first-served (FCFS)



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



P1 arrives

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



P1 arrives

System status

P1 - 4

Running time (Remaining time)

Indicating process

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



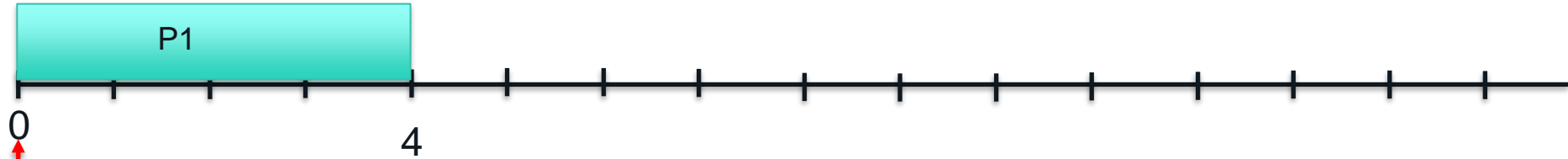
P1 arrives

P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 arrives

P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 1 finishes

P1

0

4

P1 arrives

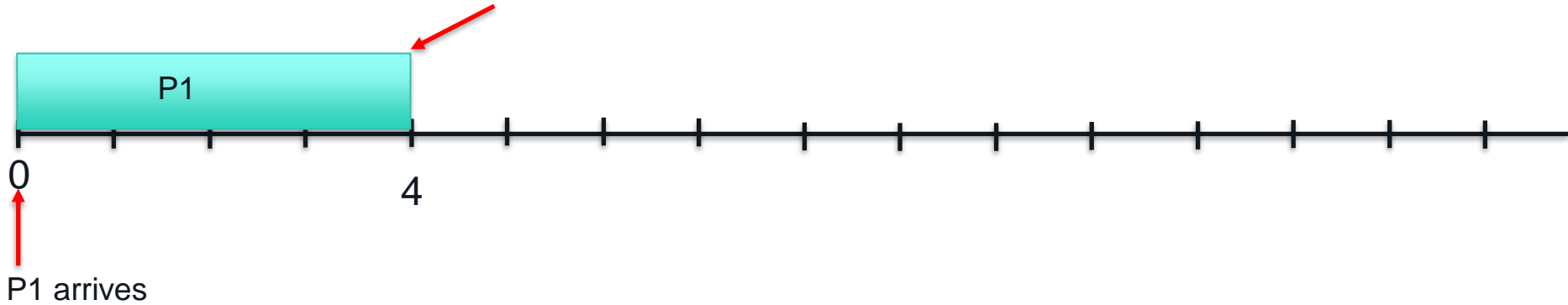
P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 1 started at time 0 and finished at time 4



P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



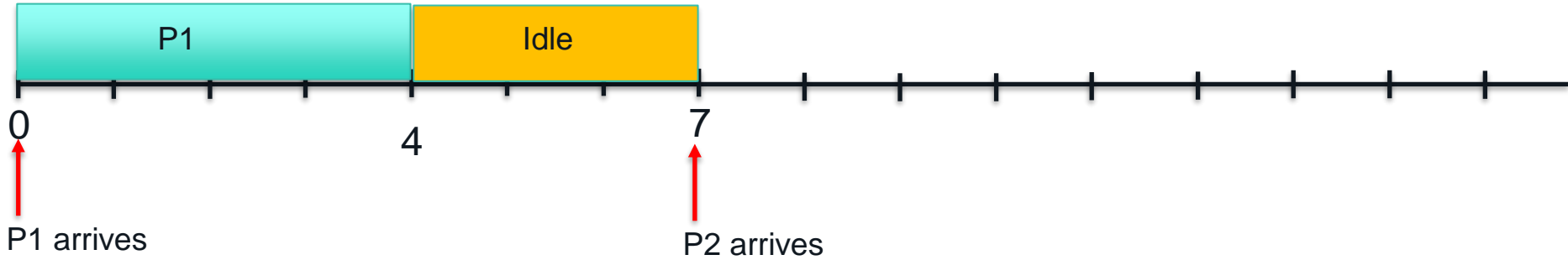
P1 - 4



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



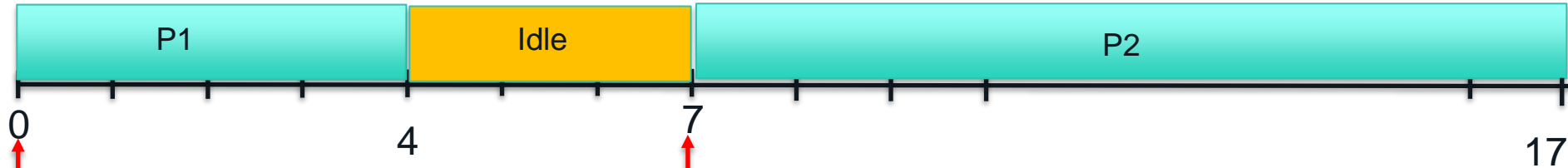
P1 - 4

P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



↑  
P1 arrives

↑  
P2 arrives

P1 - 4

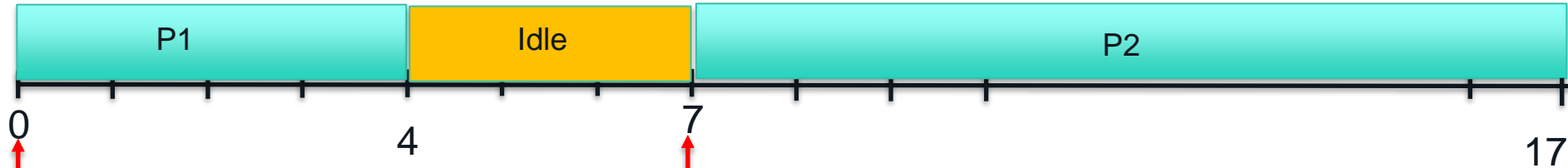
P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P2 finishes



P1 arrives

P2 arrives

P1 - 4

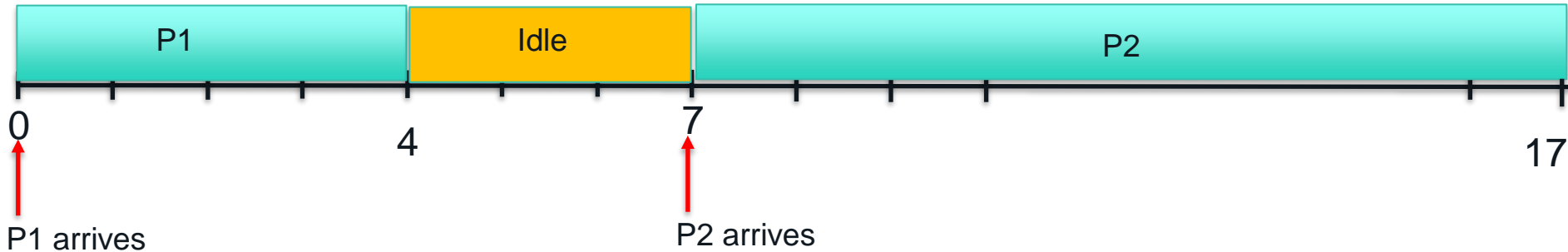
P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 2 started at time 7 and finished at time 17



P1 - 4

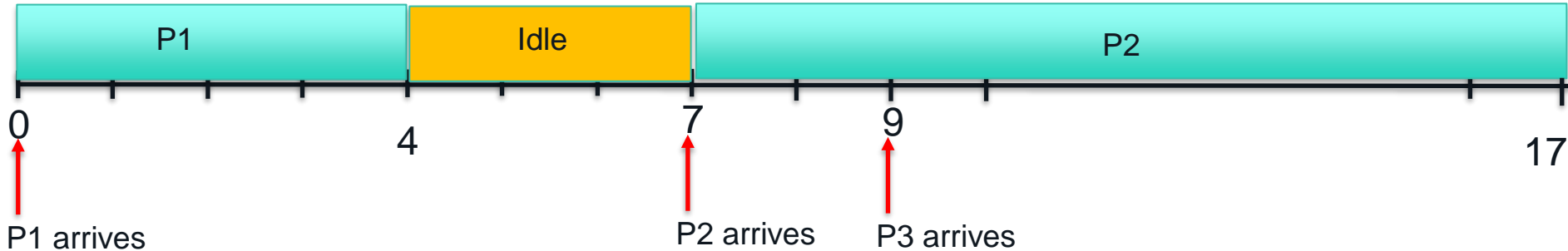
P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 2 started at time 7 and finished at time 17



P1 - 4

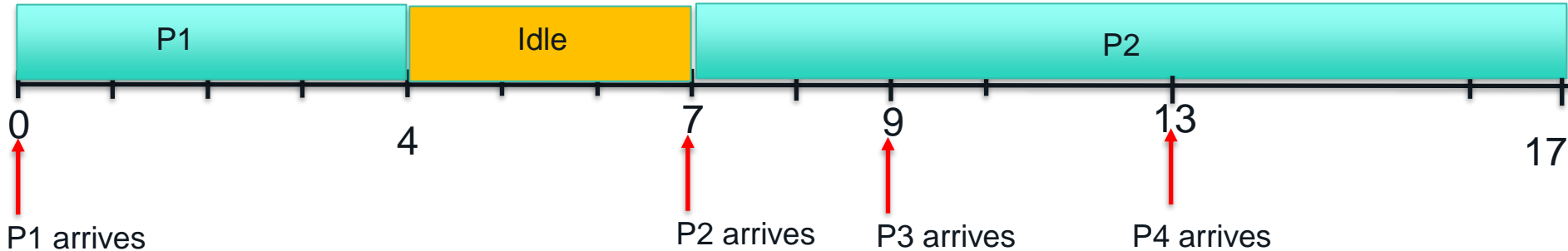
P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 2 started at time 7 and finished at time 17



P1 - 4

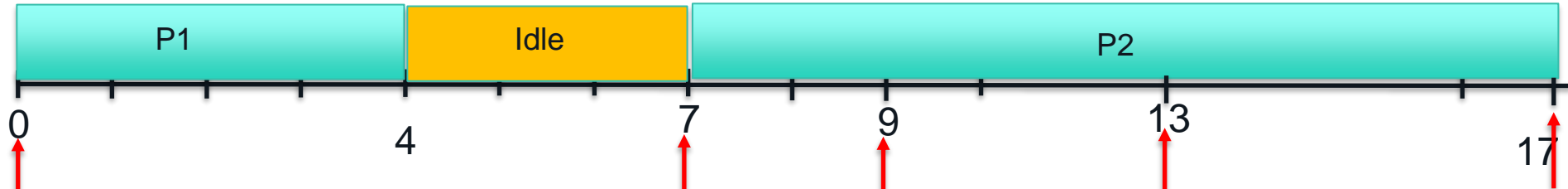
P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 2 started at time 7 and finished at time 17



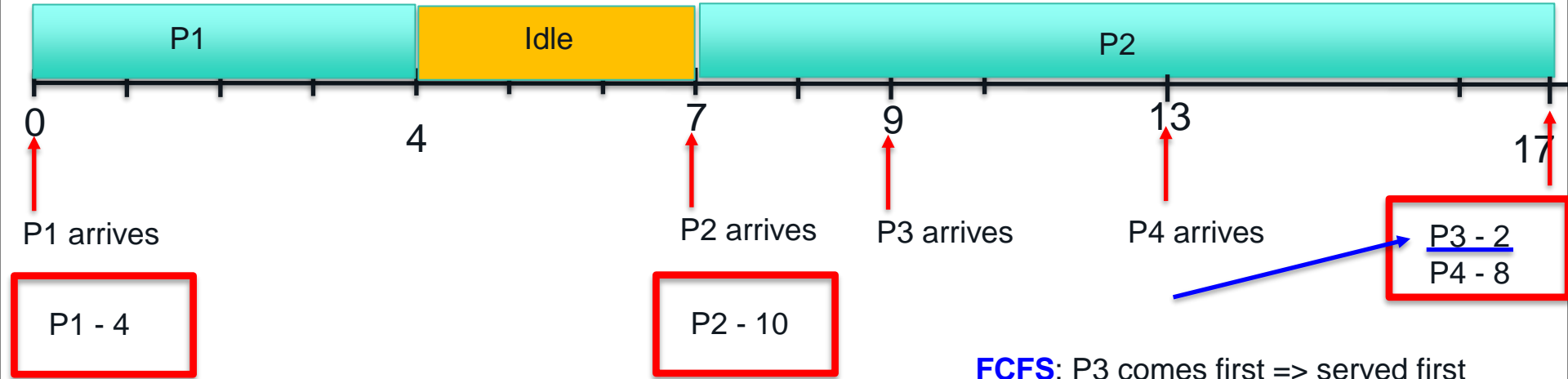


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 2 started at time 7 and finished at time 17

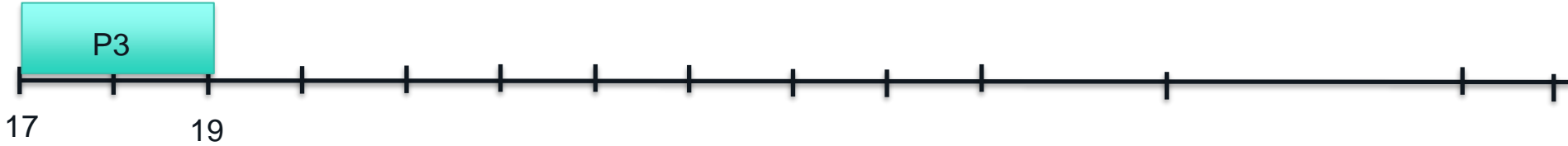


**FCFS:** P3 comes first => served first

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

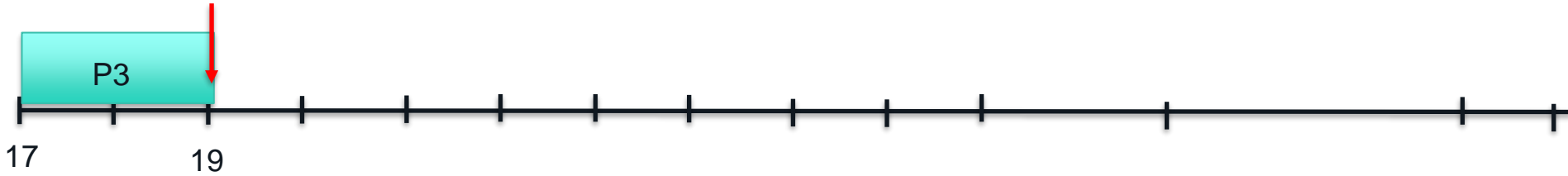


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P3 finishes

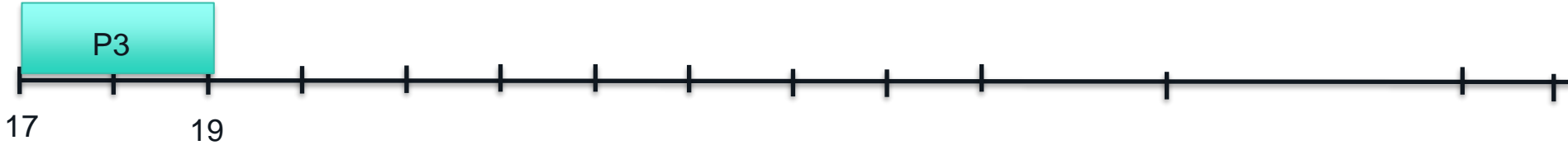


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

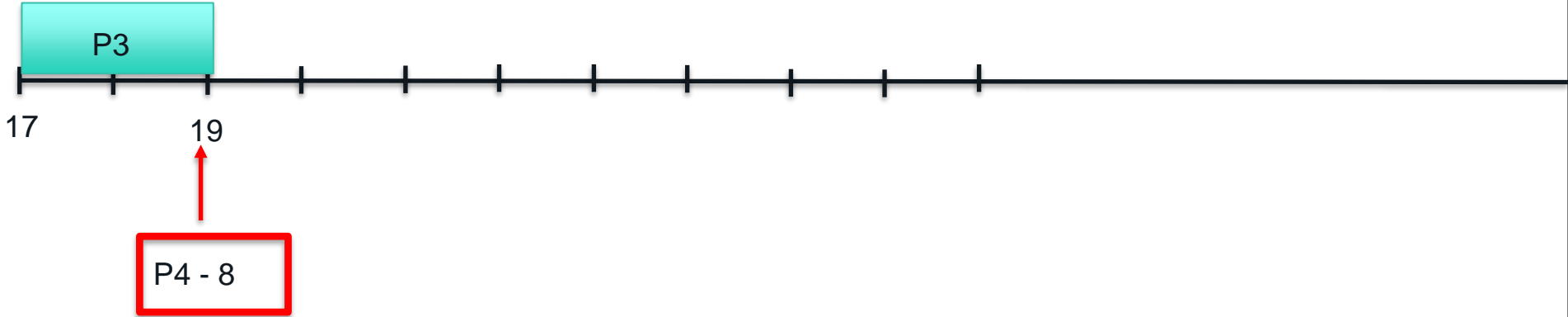
P3 starts at time 17 and finishes at time 19



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 finishes



P4 - 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 27

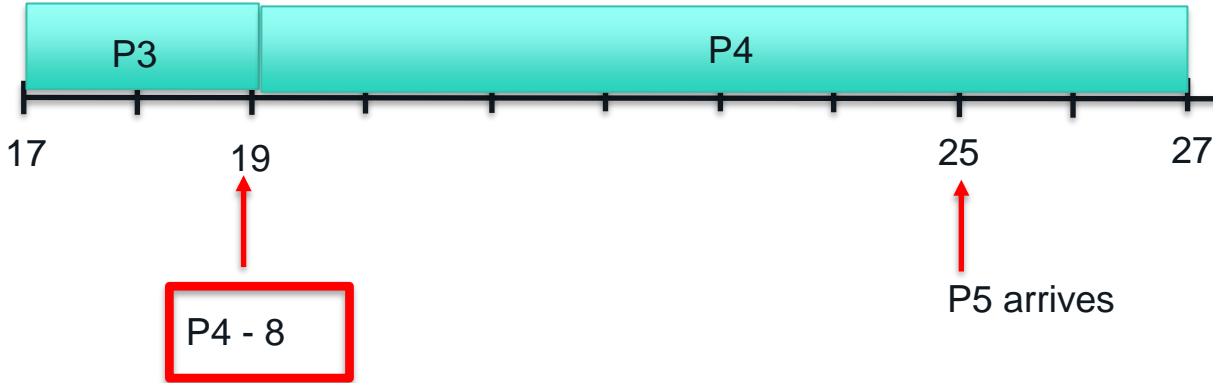


P4 - 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

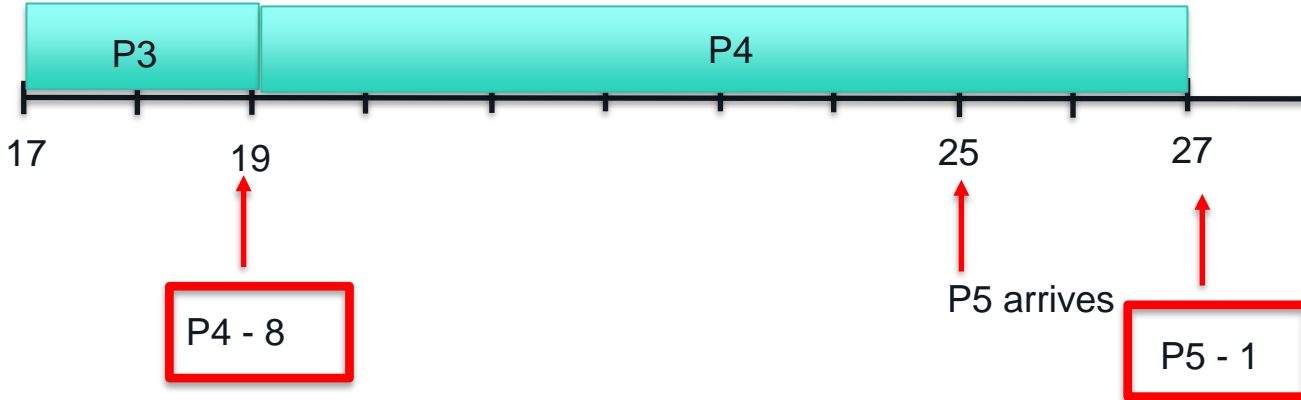




Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



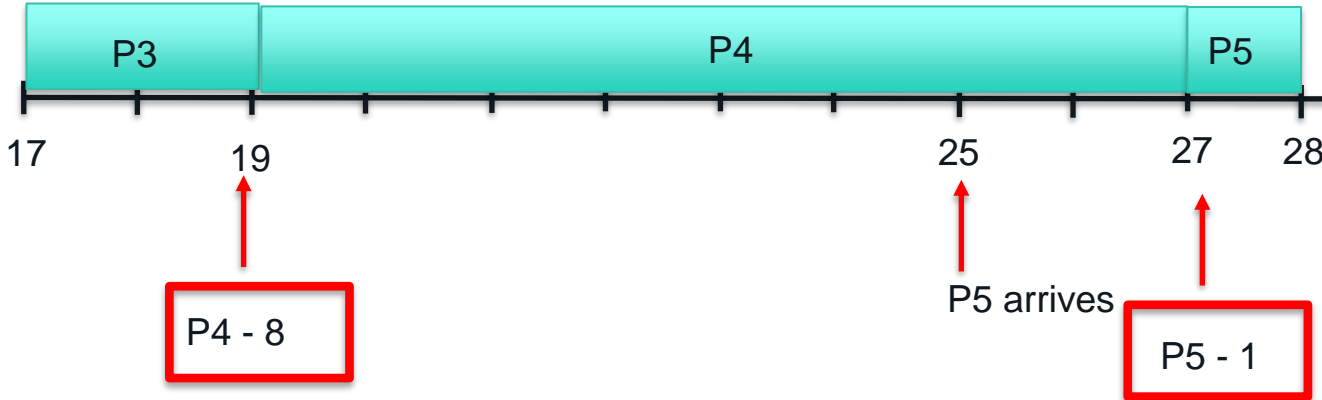
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P5 finishes



P4 - 8

P5 arrives

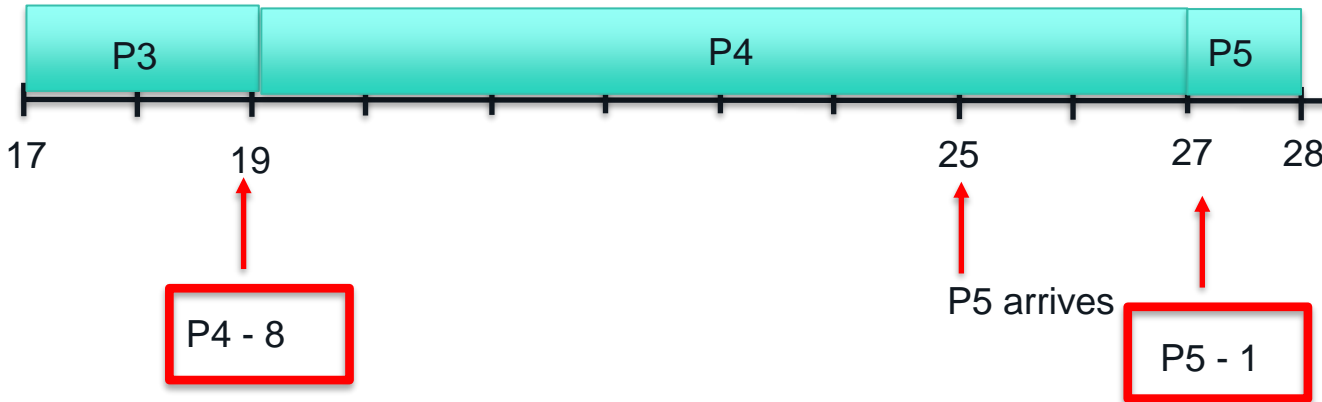
P5 - 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P5 starts at time 27 and finishes at time 28



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P5 starts at time 27 and finishes at time 28



P4 - 8

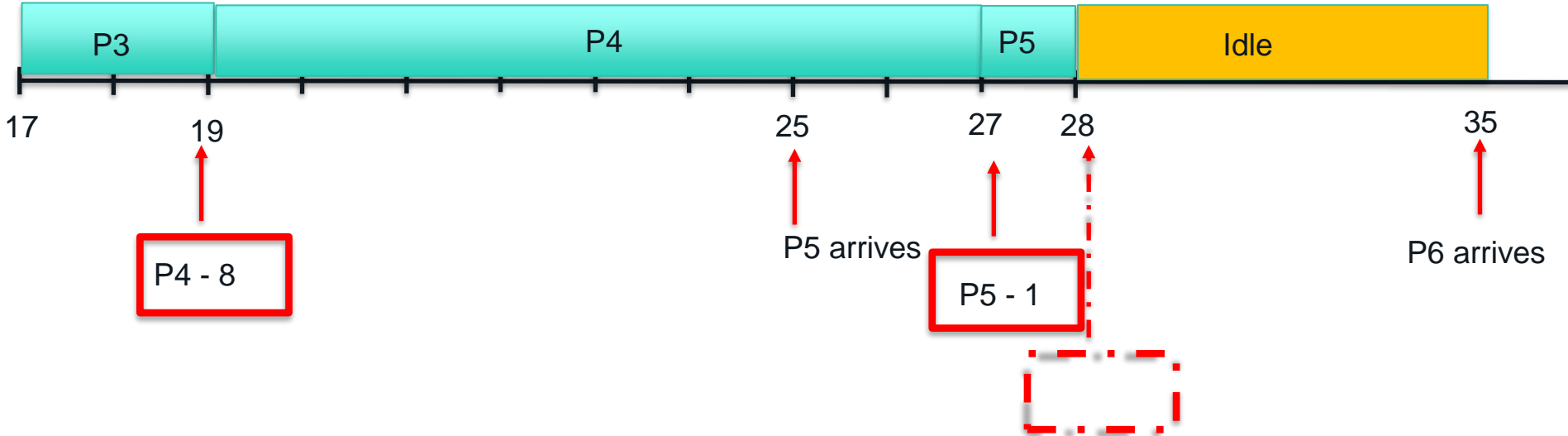
P5 arrives

P5 - 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



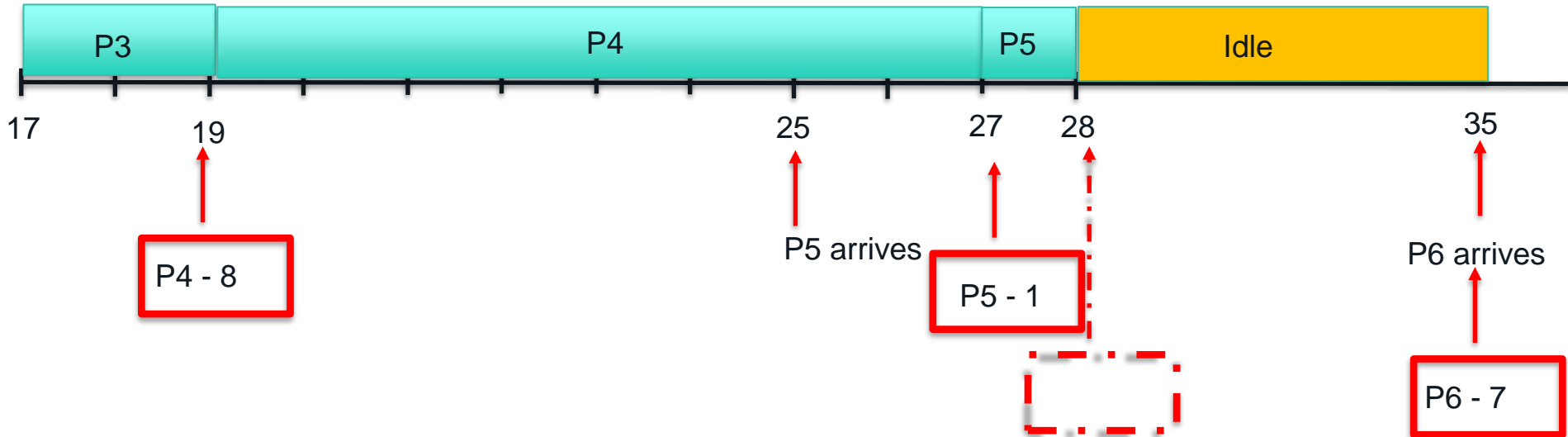
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



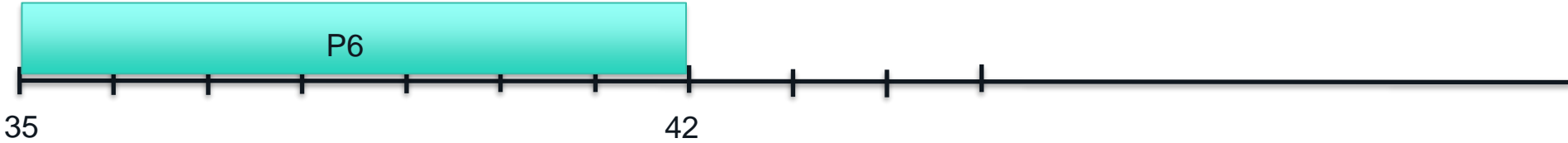
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input





Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P6 finishes



P6

35

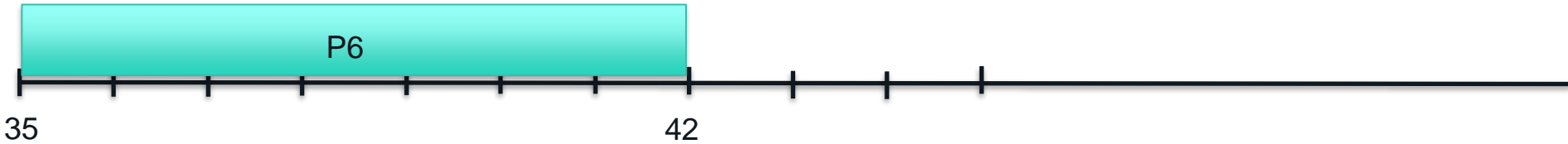
42

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

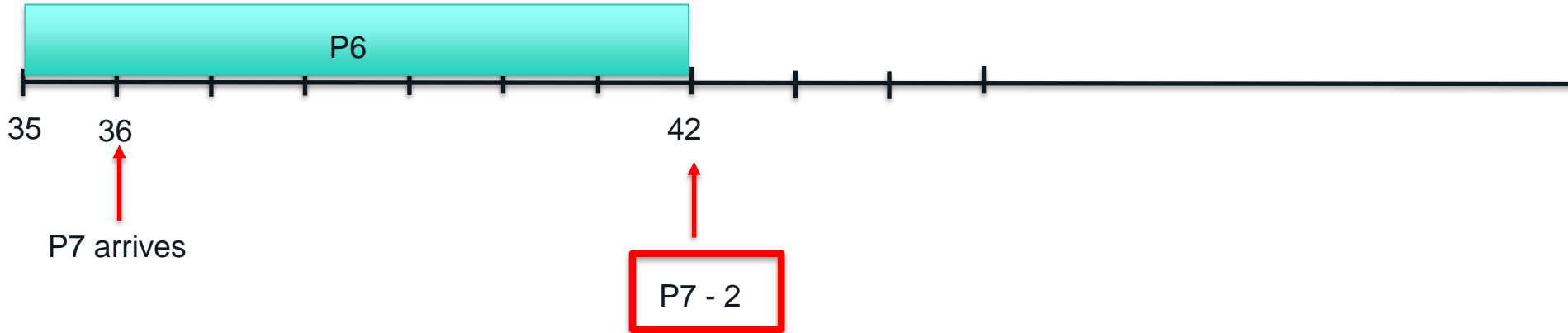
P6 starts at time 35 and finishes at time 42



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



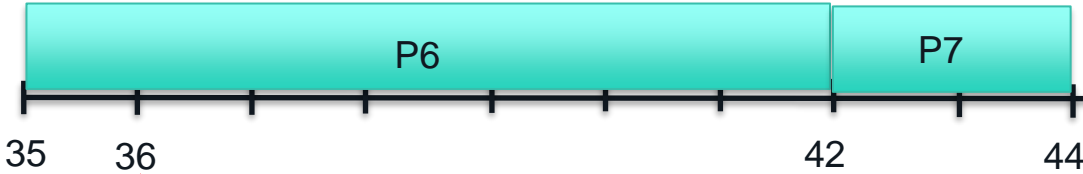
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P7 arrives

P7 - 2

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 finishes



35

36

42

44

P7 arrives

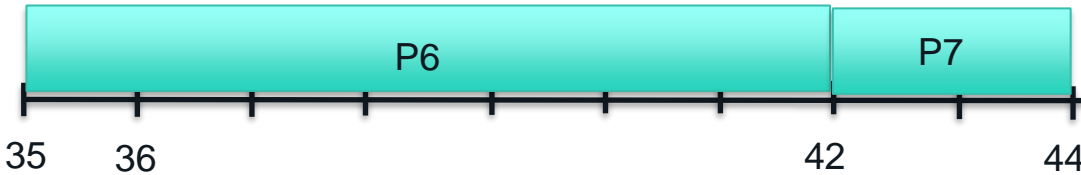
P7 - 2

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 42 and finishes at time 44



35 36  
↑  
P7 arrives

42  
↑

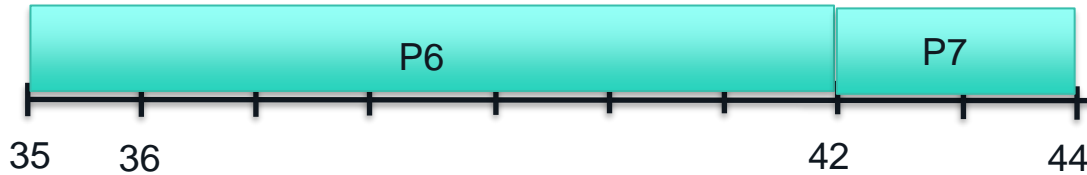
P7 - 2

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 42 and finishes at time 44



P7 arrives

P7 - 2

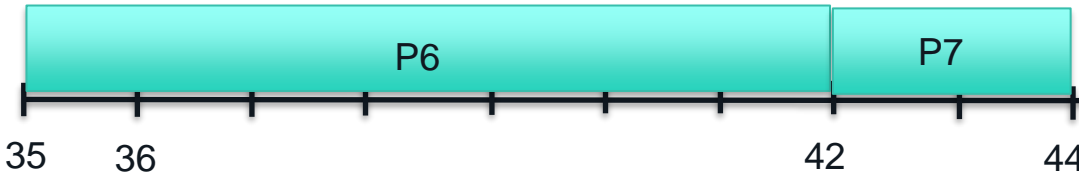


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 42 and finishes at time 44



35 36  
↑  
P7 arrives

42  
↑

P7 - 2

44  
↑

END!





Shortest remaining time next (SRTN)

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



P1 arrives

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

0



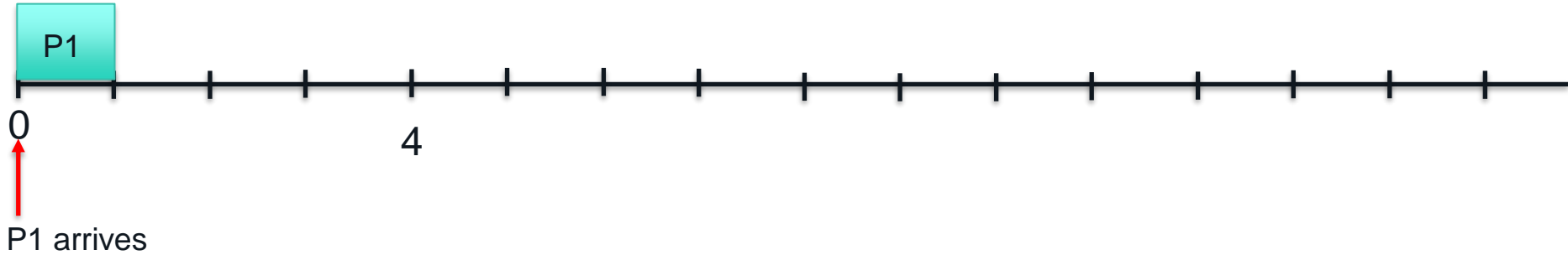
P1 arrives

P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

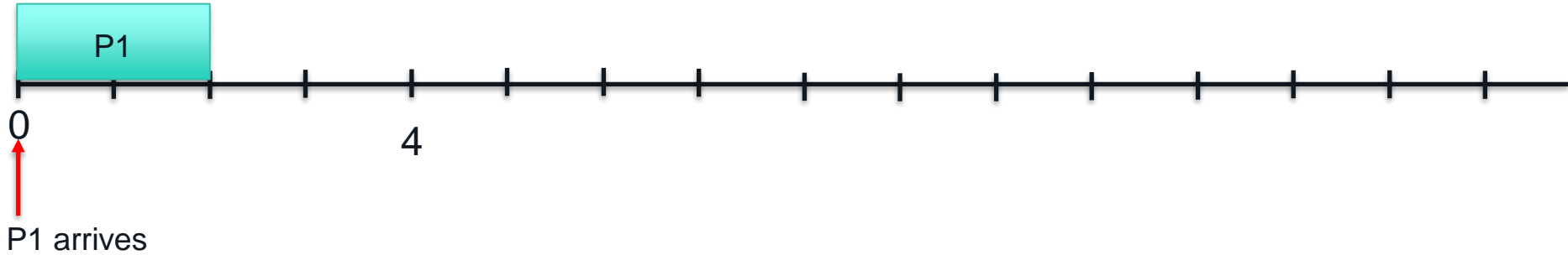


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

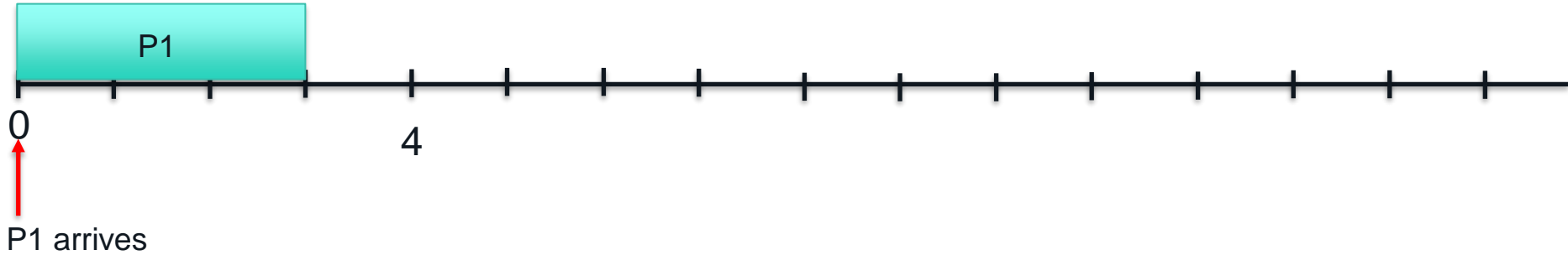


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

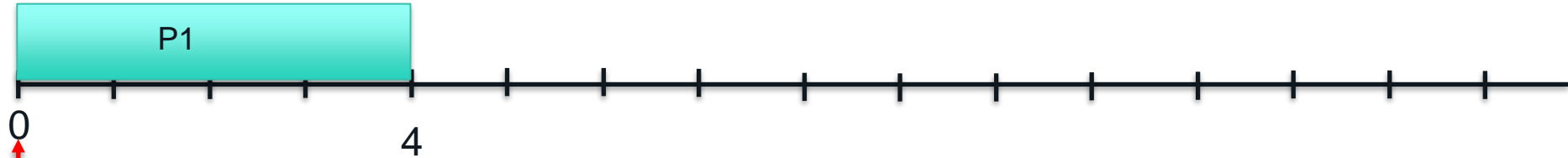


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 arrives

P1 - 4



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Process 1 finishes

P1

0

4

P1 arrives

P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

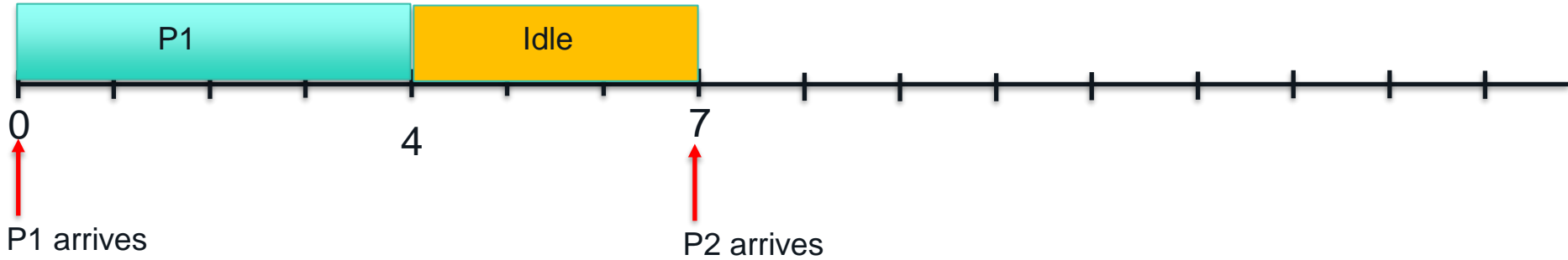


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

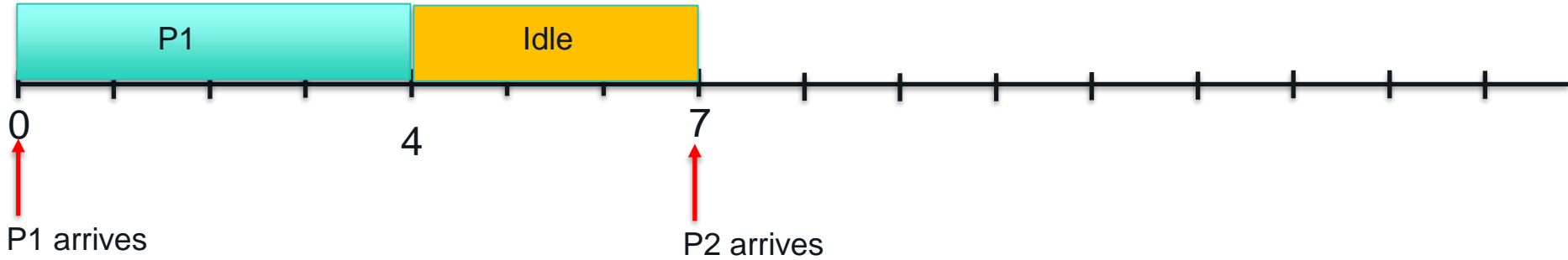


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

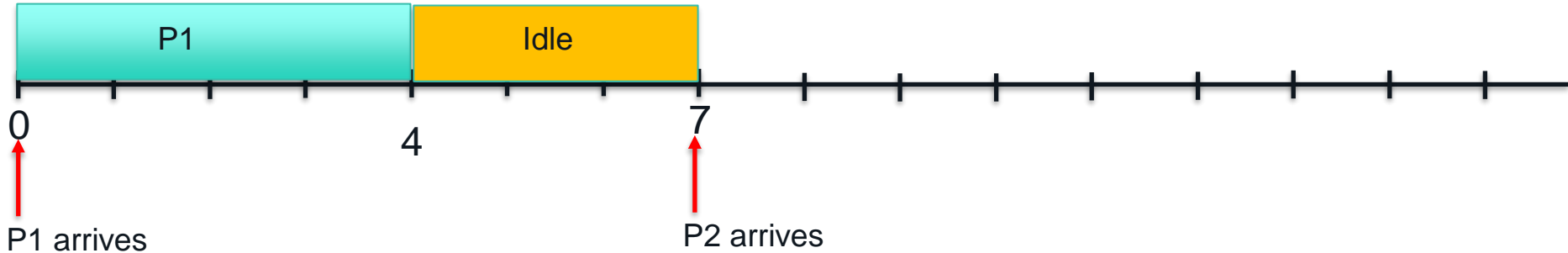


P1 - 4

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



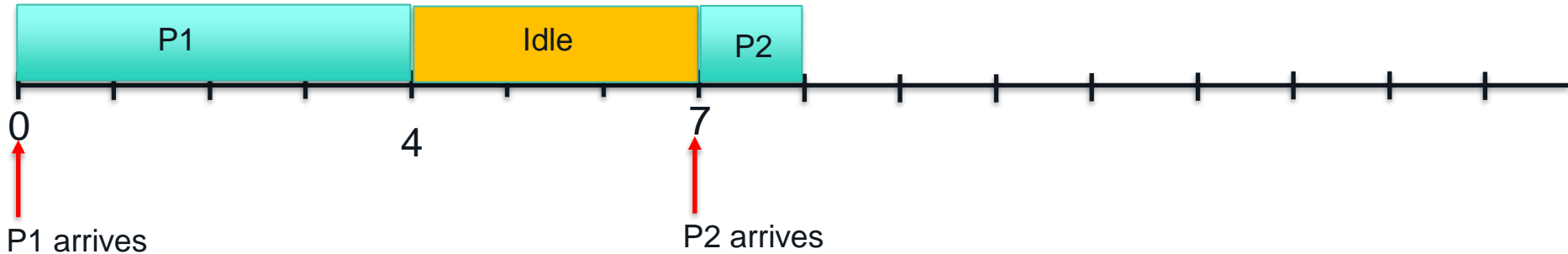
P1 - 4

P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



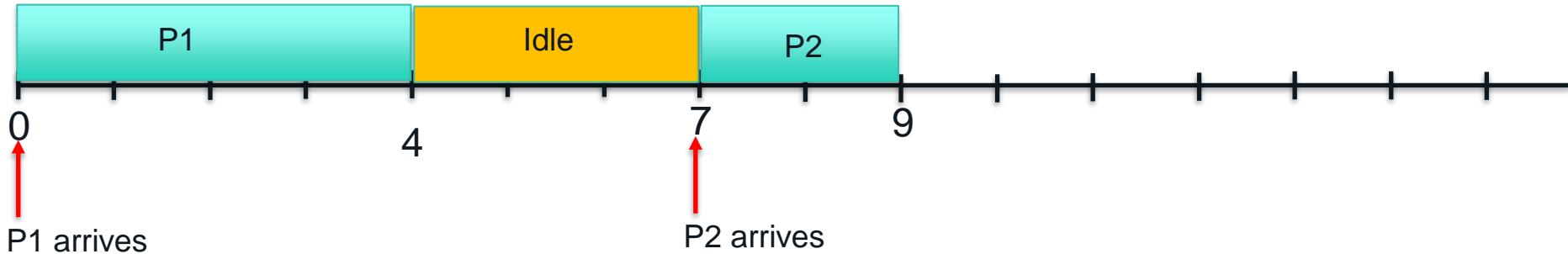
P1 - 4

P2 - 10

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

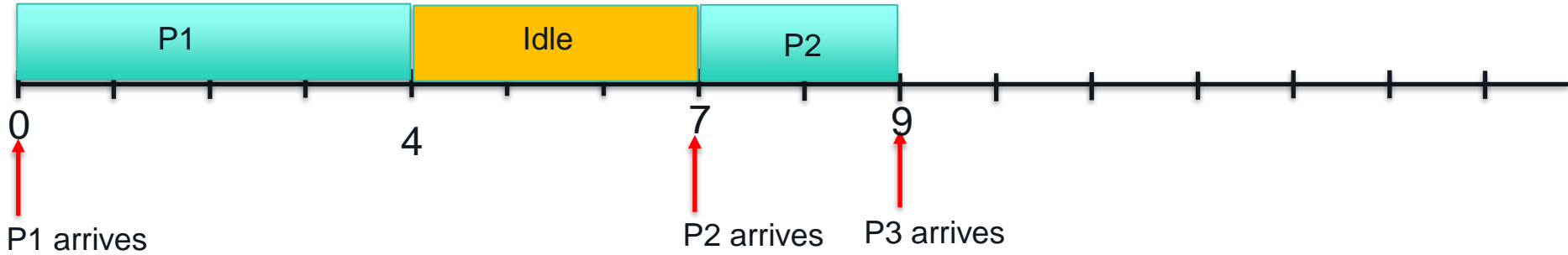
P2 - 10



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

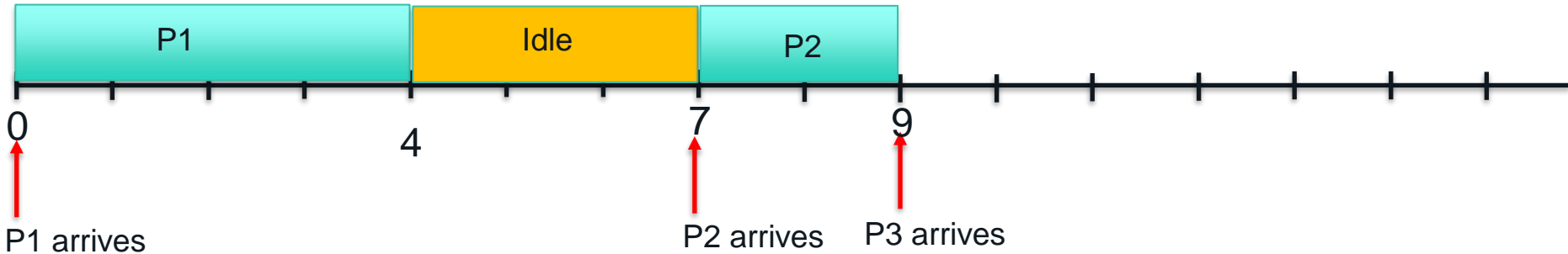
P2 - 10

P2 - 8  
P3 - 2

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

P2 - 10

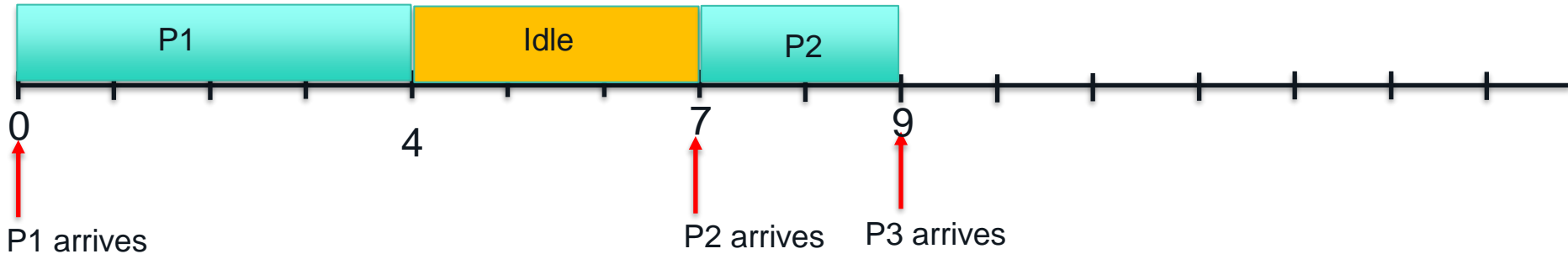
P2 - 8  
P3 - 2

**SRTN:** P3 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

P2 - 10

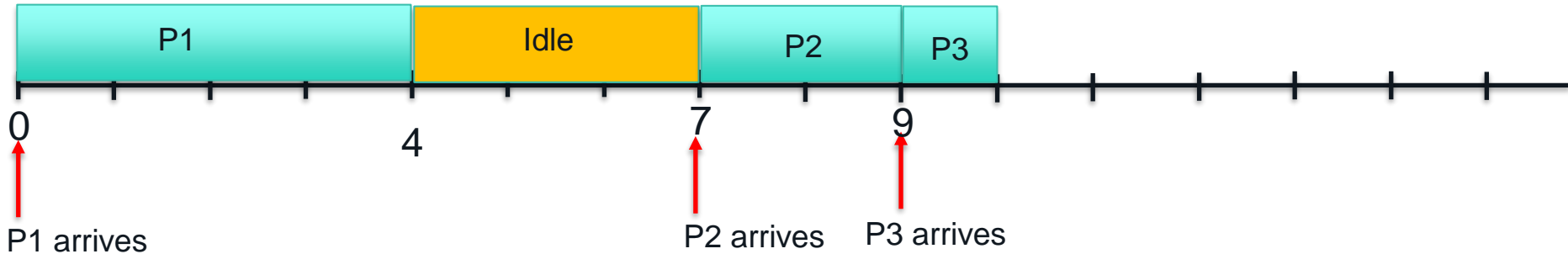
P2 - 8  
P3 - 2

**SRTN:** P3 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P1 - 4

P2 - 10

P2 - 8  
P3 - 2

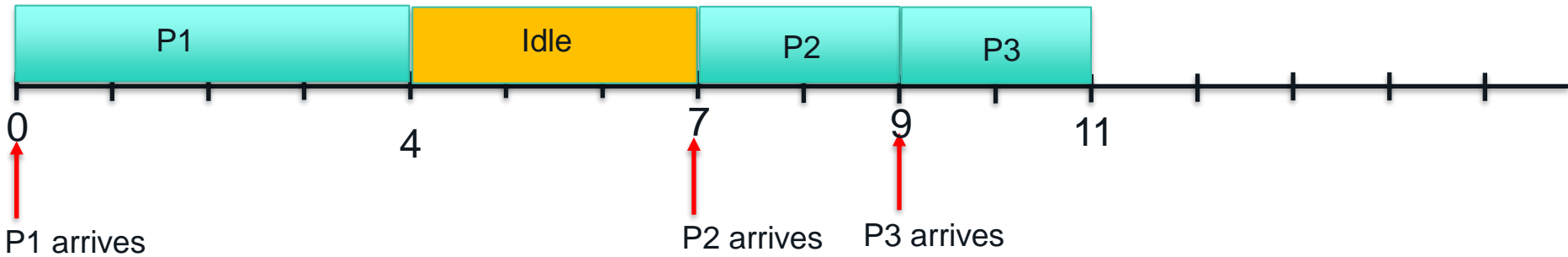
**SRTN:** P3 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P3 finishes



P1 - 4

P2 - 10

P2 - 8  
P3 - 2

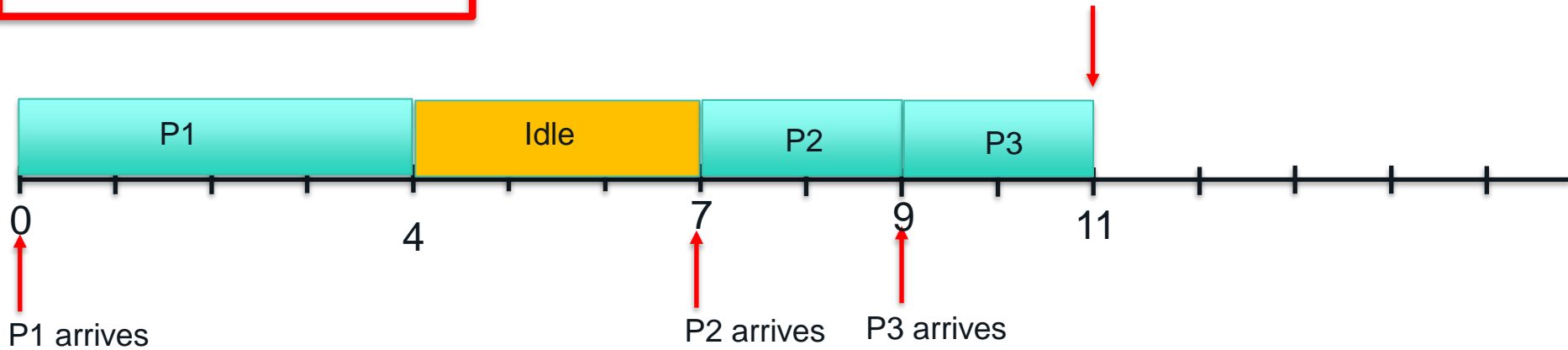
**SRTN:** P3 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P3 starts at time 9 and finishes at time 11



P1 - 4

P2 - 10

P2 - 8  
P3 - 2

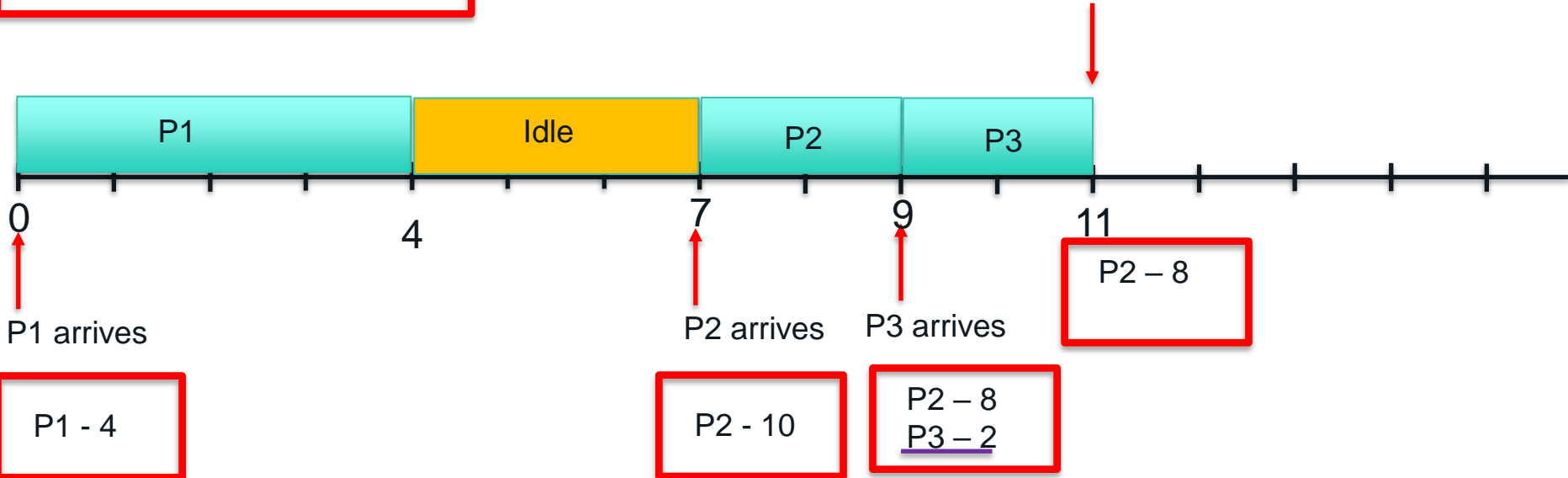
**SRTN:** P3 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

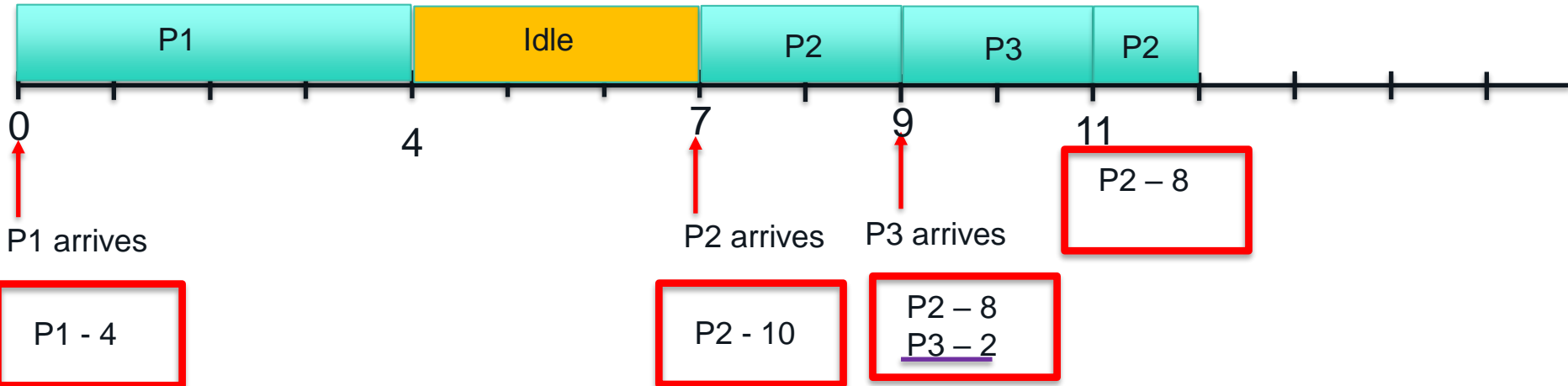
P3 starts at time 9 and finishes at time 11



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

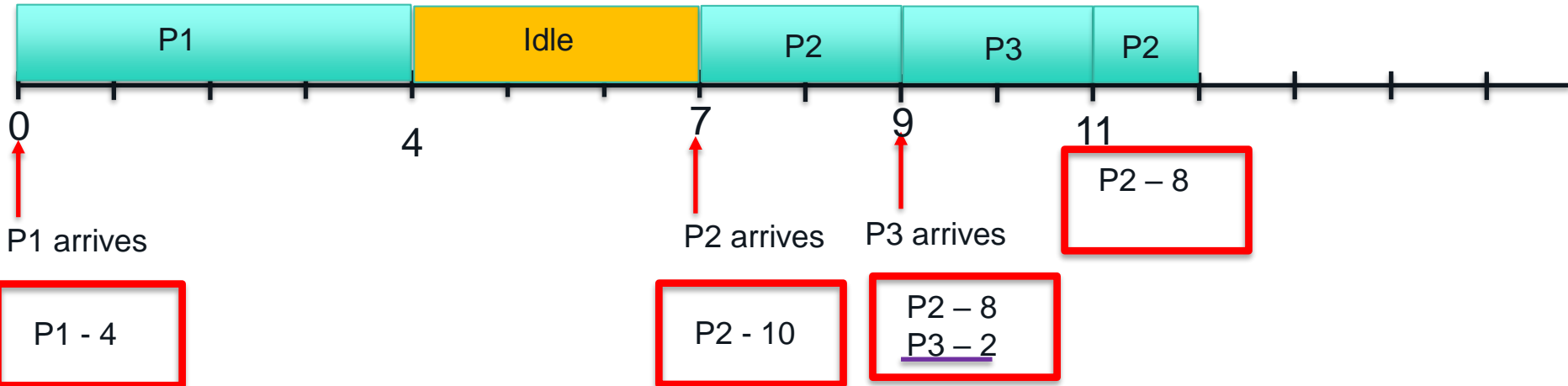




Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



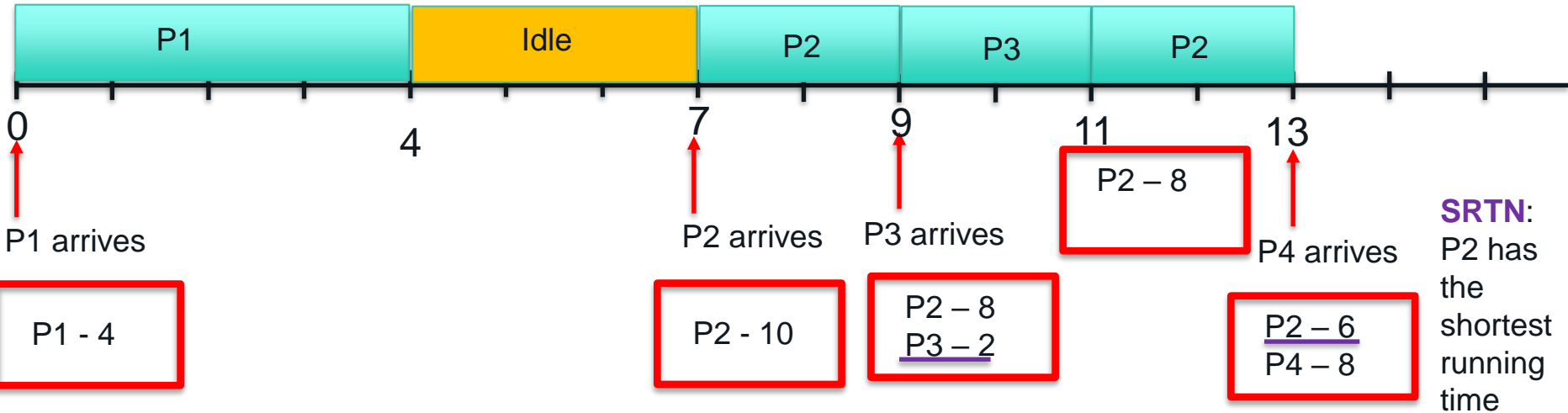
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



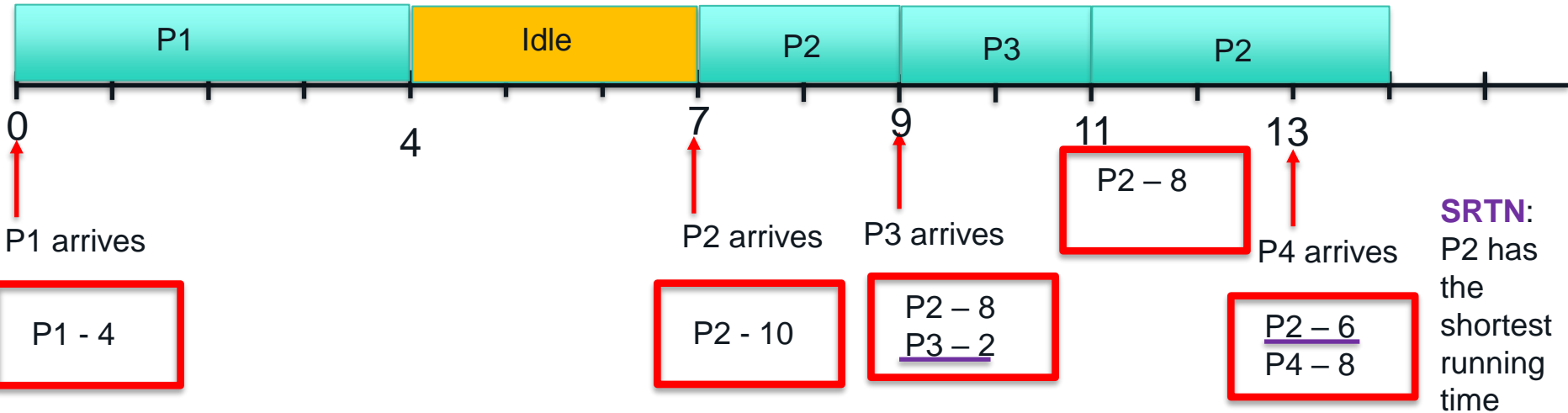
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



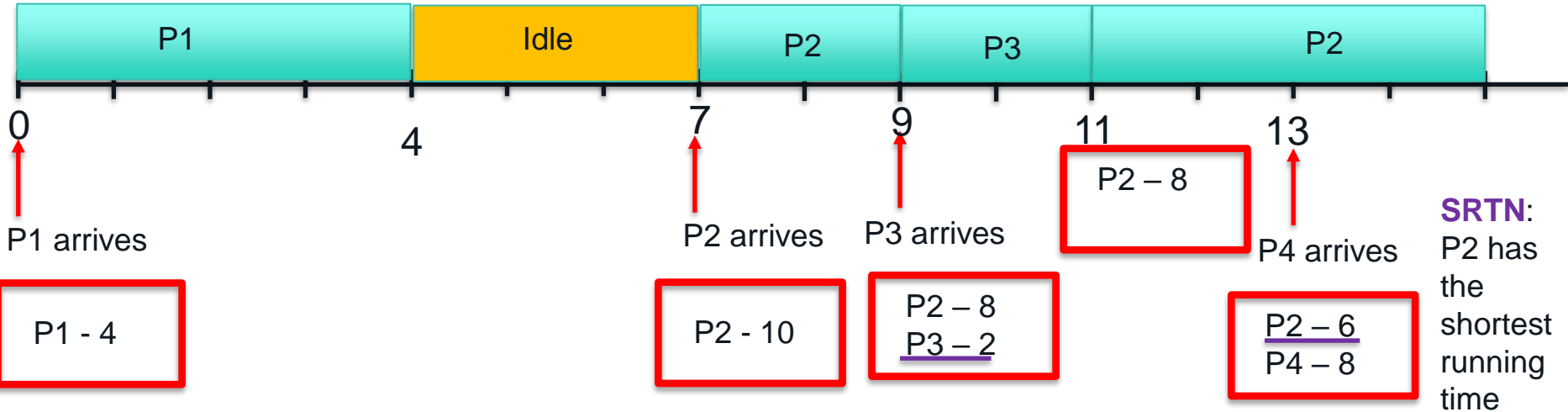
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



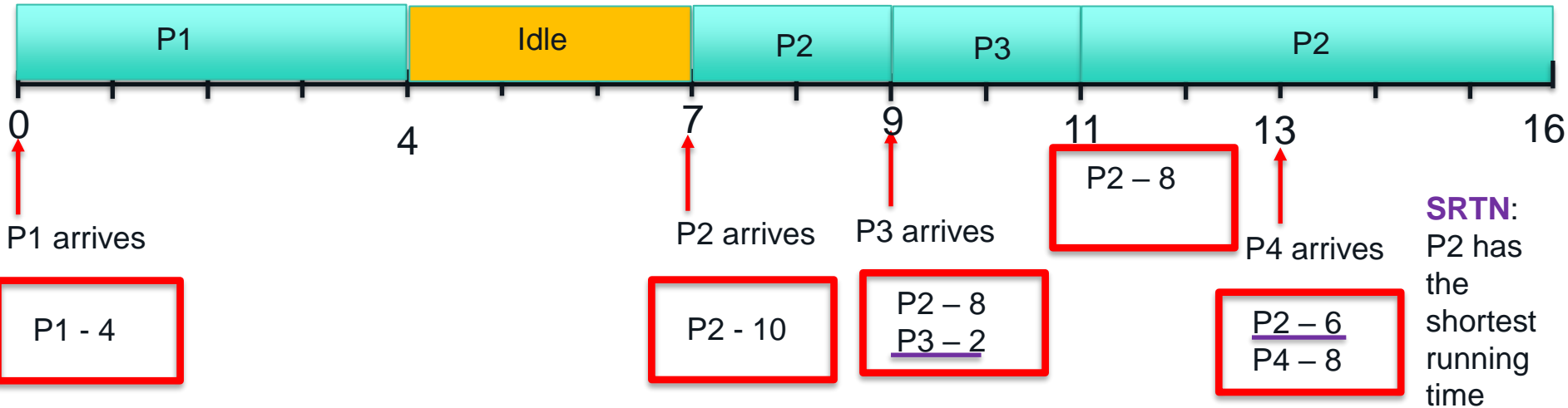
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P2

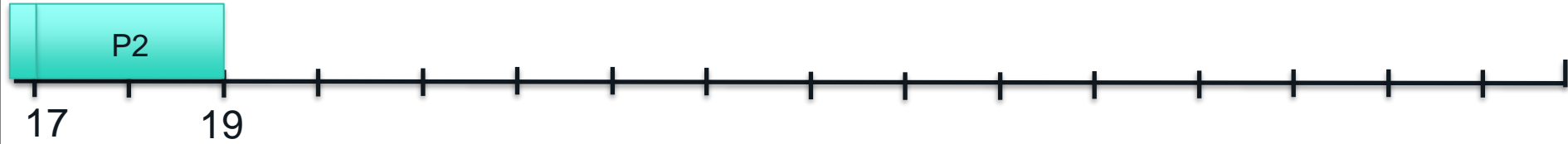
17

19

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



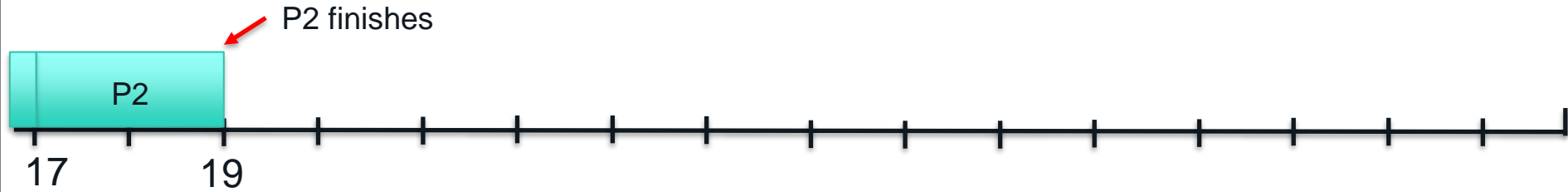
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



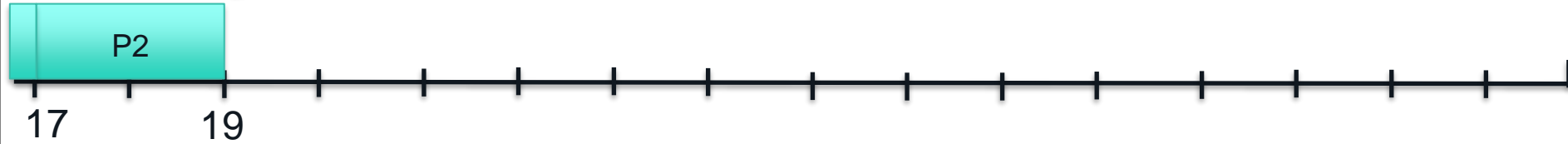


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P2 starts at time 7 and finishes at time 19

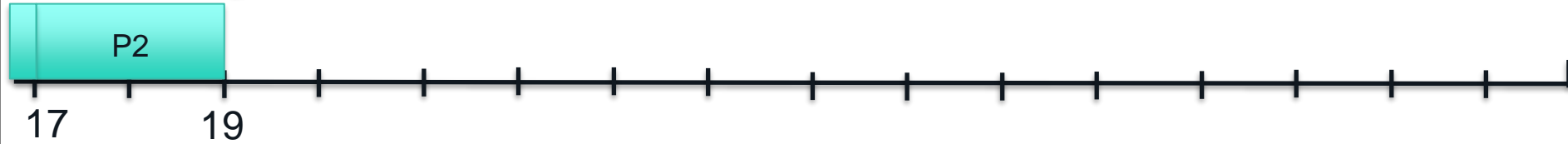


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P2 starts at time 7 and finishes at time 19



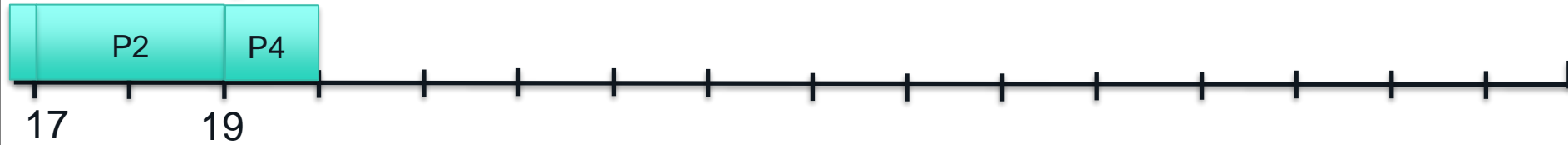
P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P2 starts at time 7 and finishes at time 19

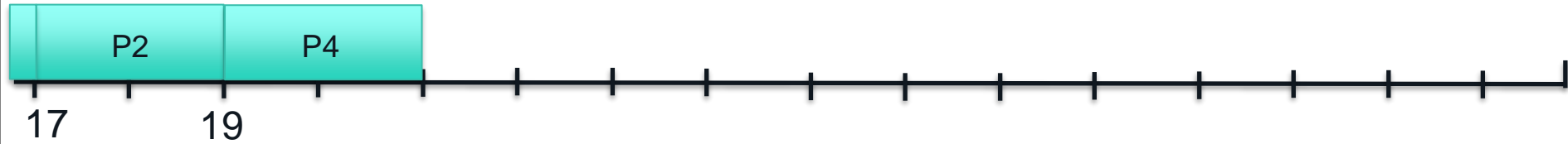


P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

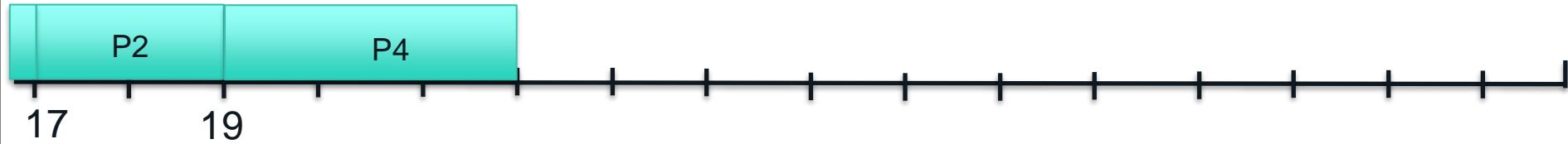


P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

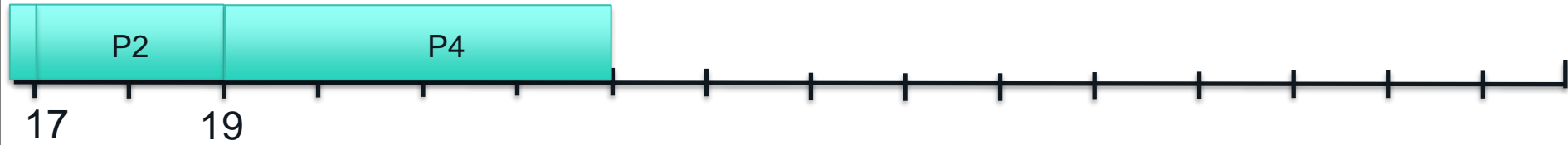


P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

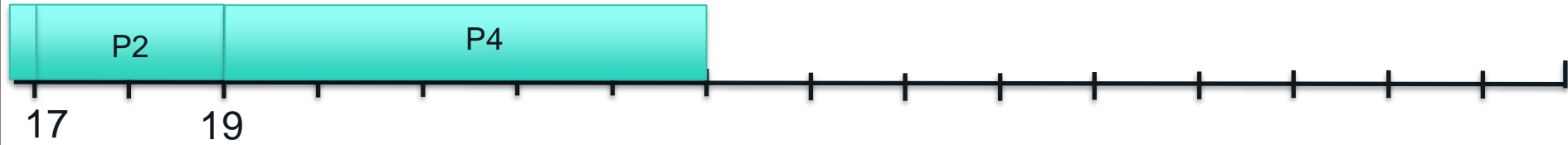


P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

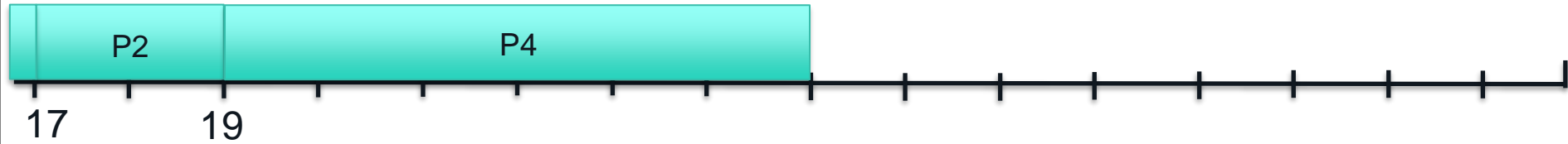


P4 – 8

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



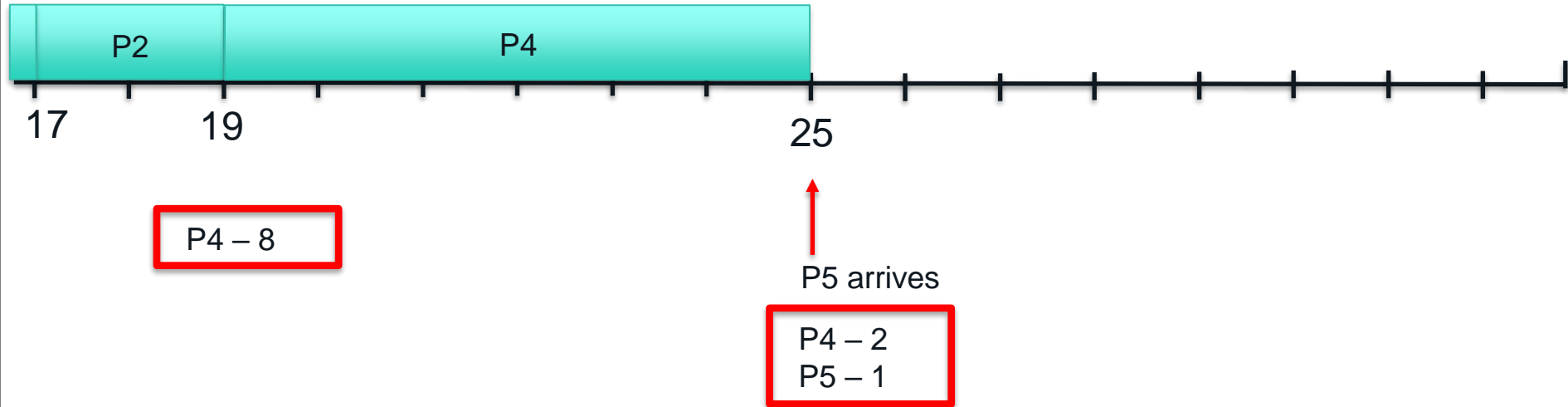
P4 – 8



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



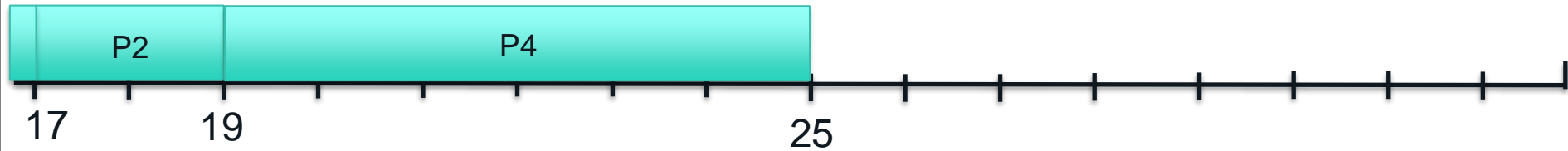
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P4 – 8

P5 arrives

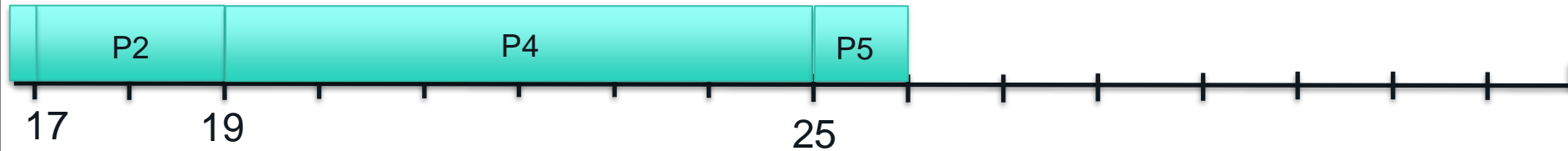
P4 – 2  
P5 – 1

**SRTN:** P5 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P4 – 8

P5 arrives

P4 – 2  
P5 – 1

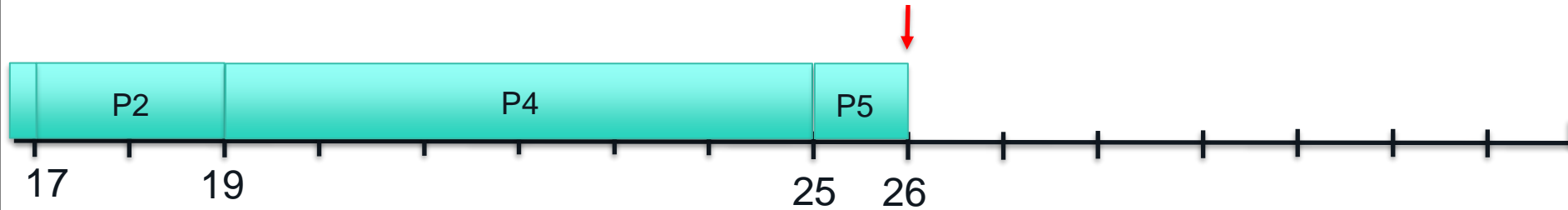
**SRTN:** P5 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P5 starts at time 25 and finishes at time 26



P4 – 8

P5 arrives

P4 – 2  
P5 – 1

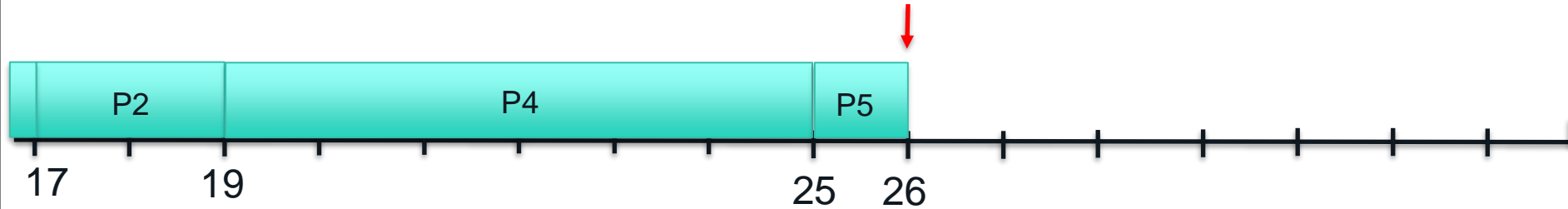
**SRTN:** P5 has the shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P5 starts at time 25 and finishes at time 26



P4 - 8

P4 - 2

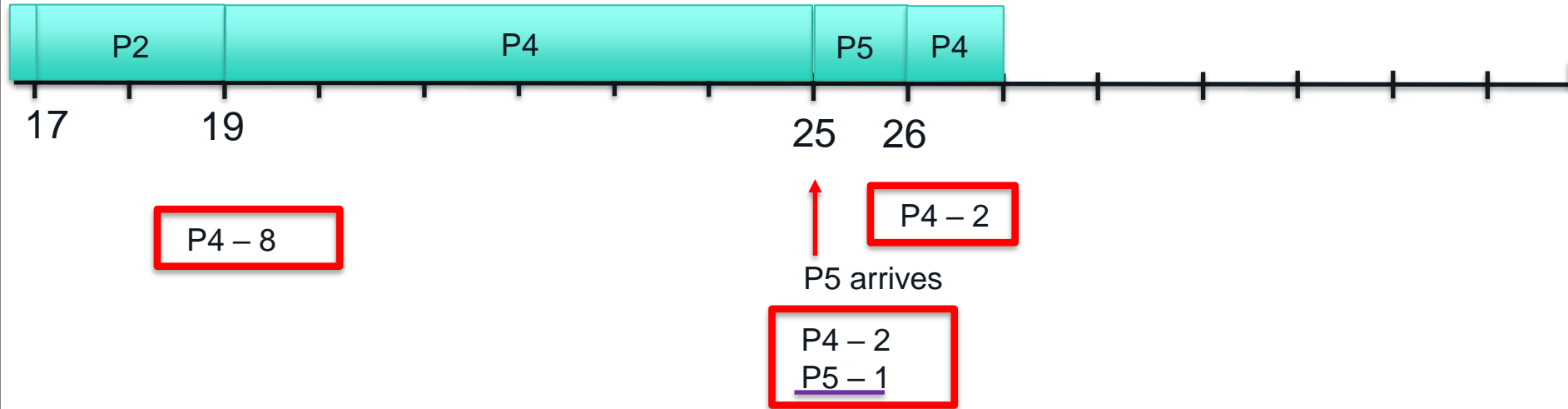
P5 arrives

P4 - 2  
P5 - 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



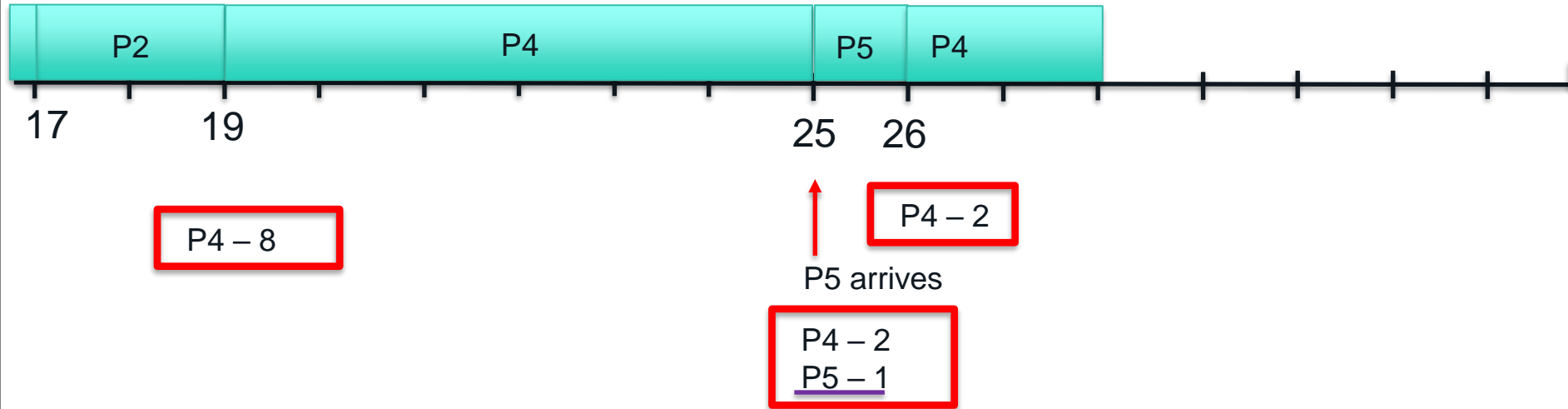
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

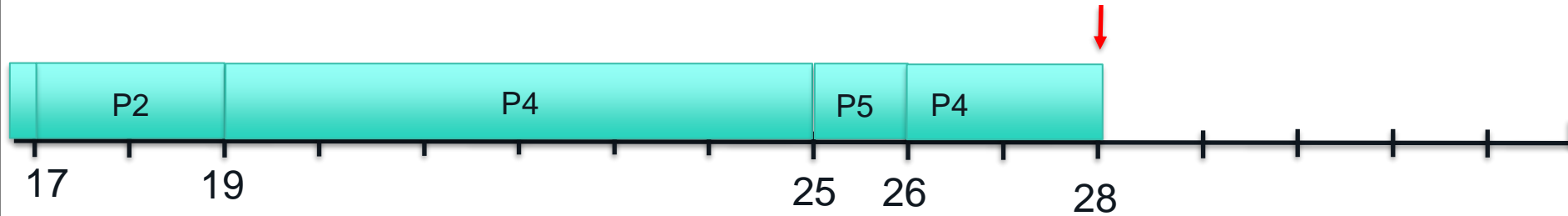


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

P4 – 2  
P5 – 1

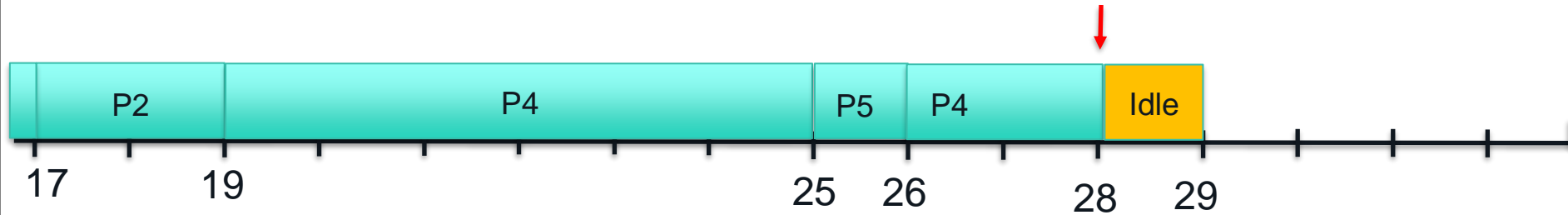


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

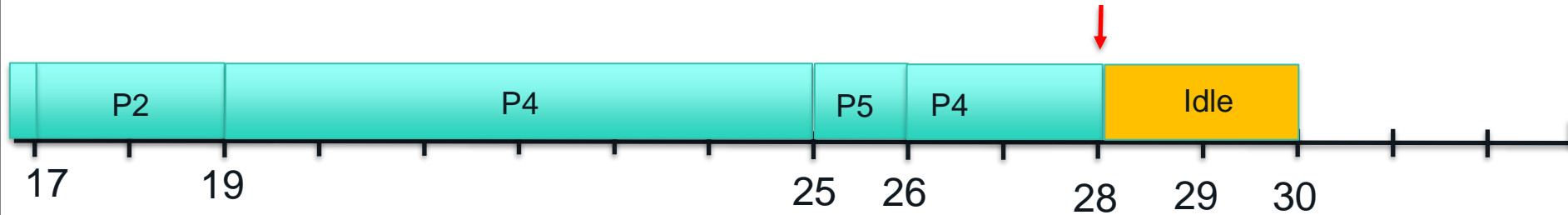
P4 – 2  
P5 – 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

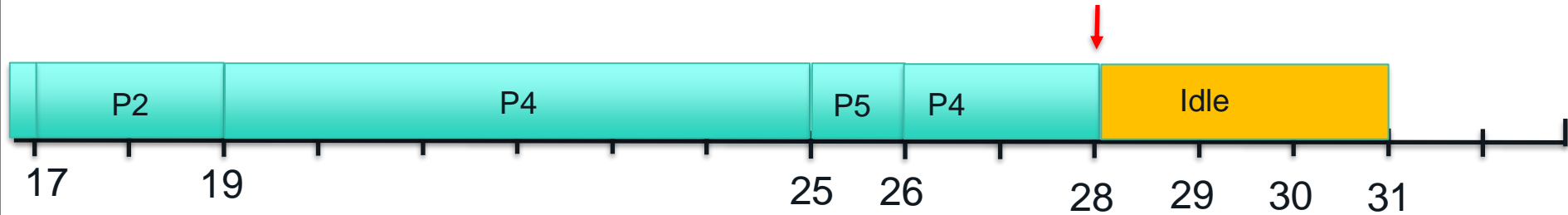
P4 – 2  
P5 – 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

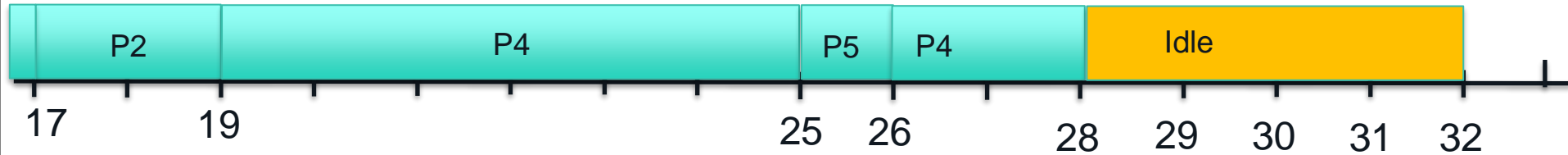
P4 – 2  
P5 – 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

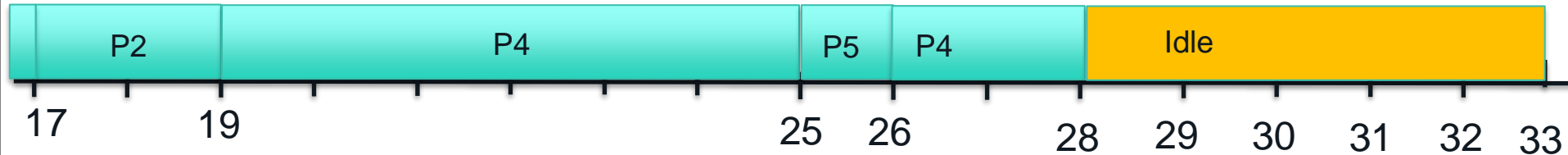
P4 – 2  
P5 – 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P4 starts at time 19 and finishes at time 28



P4 – 8

P4 – 2

P5 arrives

P4 – 2  
P5 – 1

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

1



34

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Idle



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

Idle



34 35



P6 arrives



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



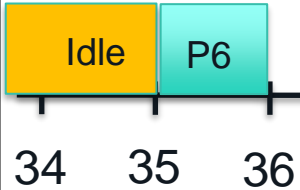
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



P6 arrives

P6 – 7

**SRTN:** P6 has the  
shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



34 35 36

P6 arrives  
P7 arrives

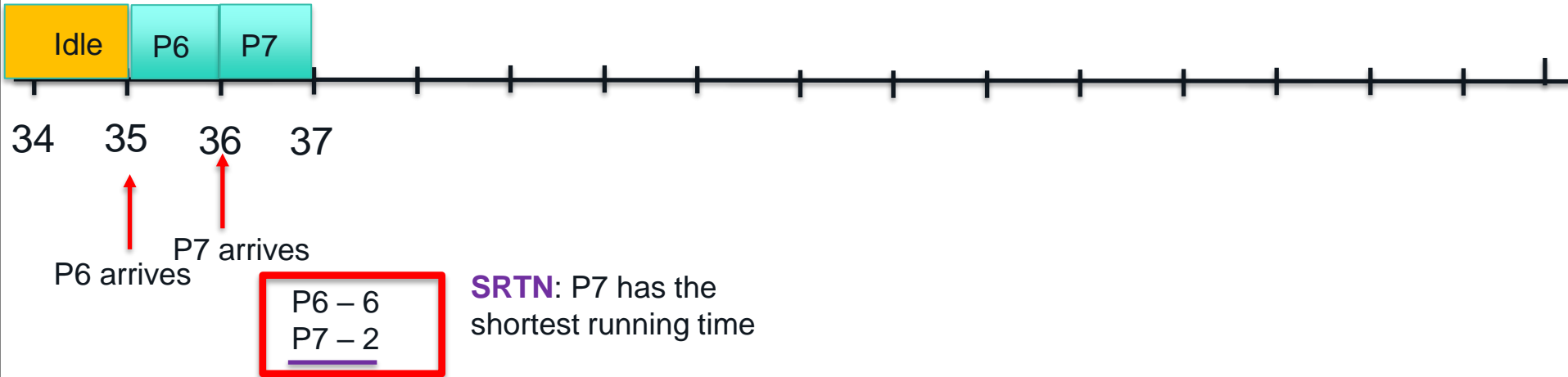
P6 – 6  
P7 – 2

**SRTN:** P7 has the  
shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



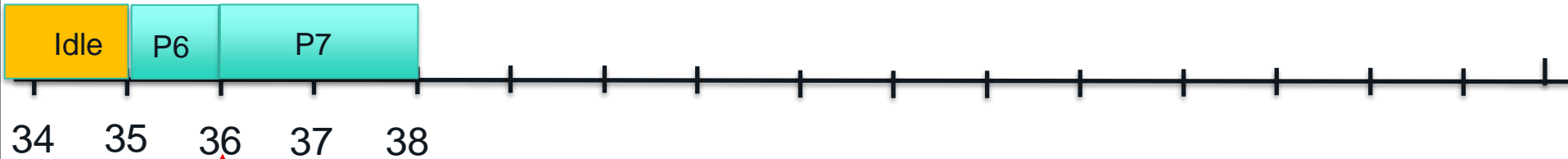
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



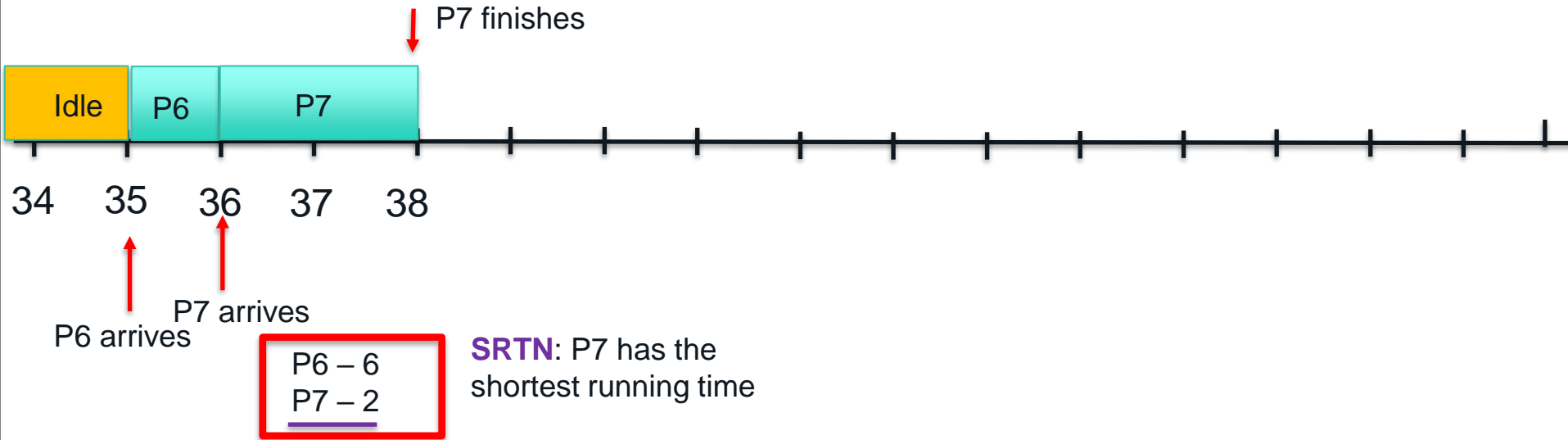
P6 – 6  
P7 – 2

**SRTN:** P7 has the  
shortest running time

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

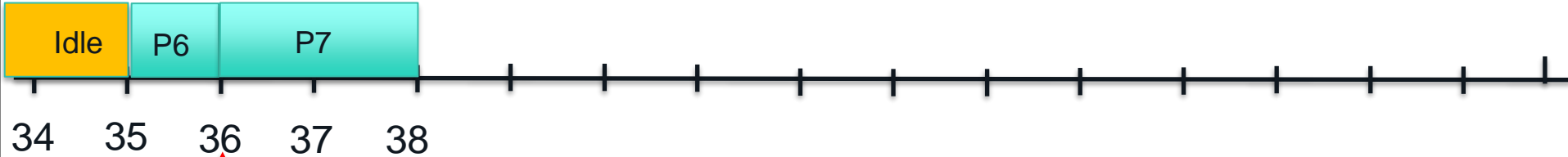


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 36 and finishes at time 38



P6 arrives  
P7 arrives

P6 – 6  
P7 – 2

**SRTN:** P7 has the  
shortest running time

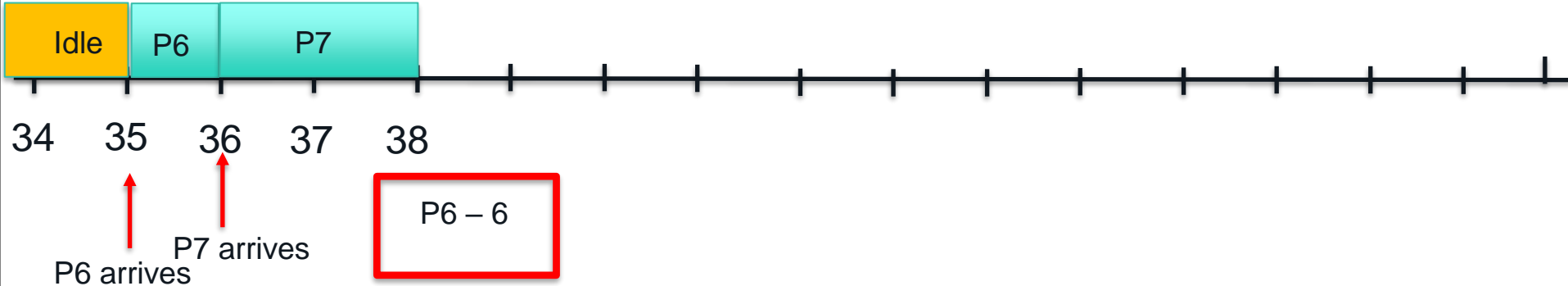


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 36 and finishes at time 38



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P7 starts at time 36 and finishes at time 38



34 35 36 37 38 39

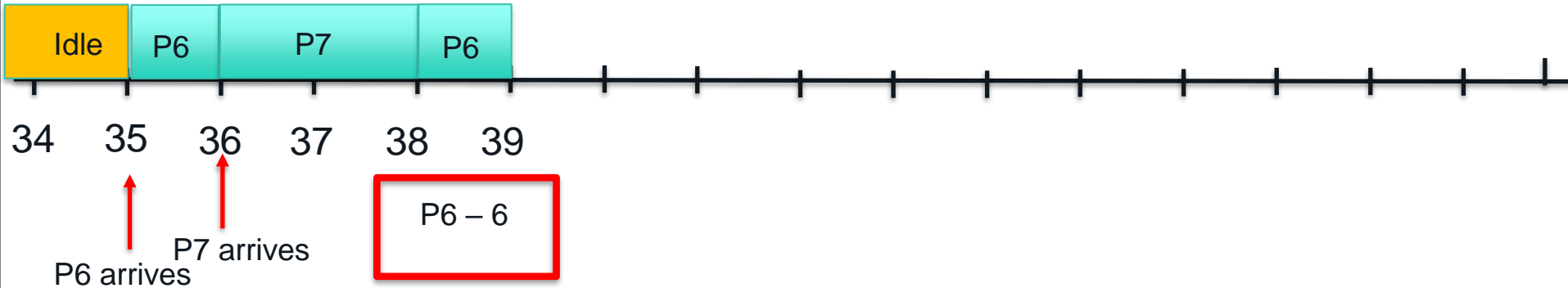
P6 – 6

P6 arrives  
P7 arrives

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



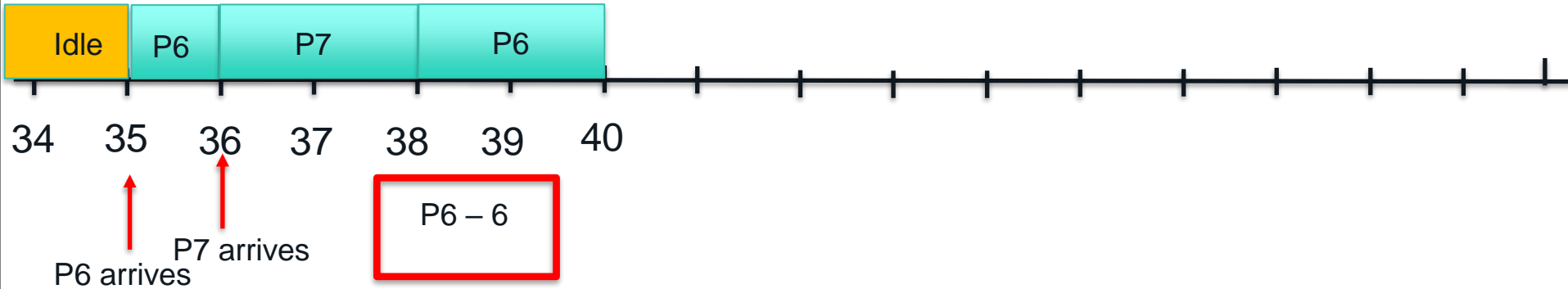
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



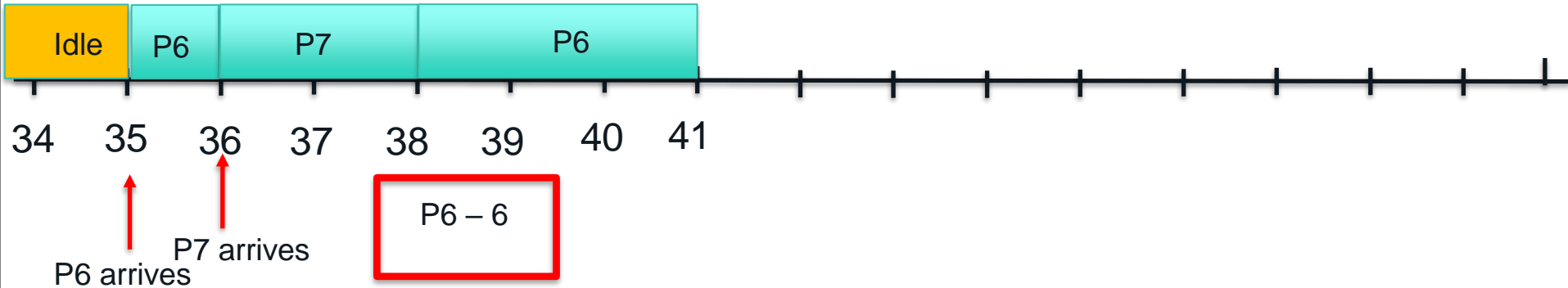
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



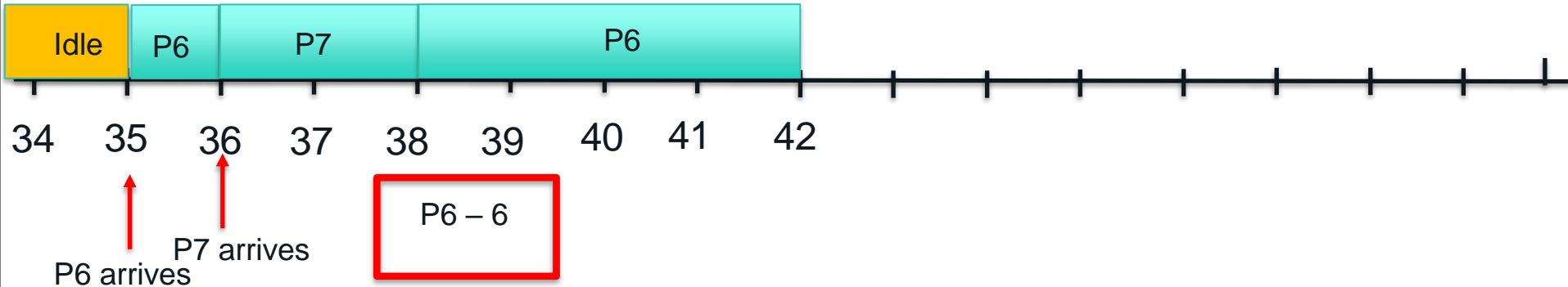
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



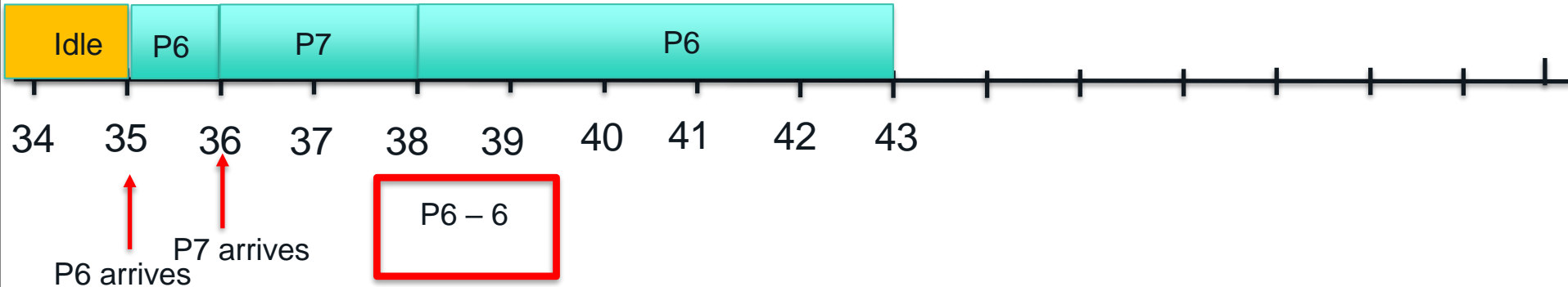
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



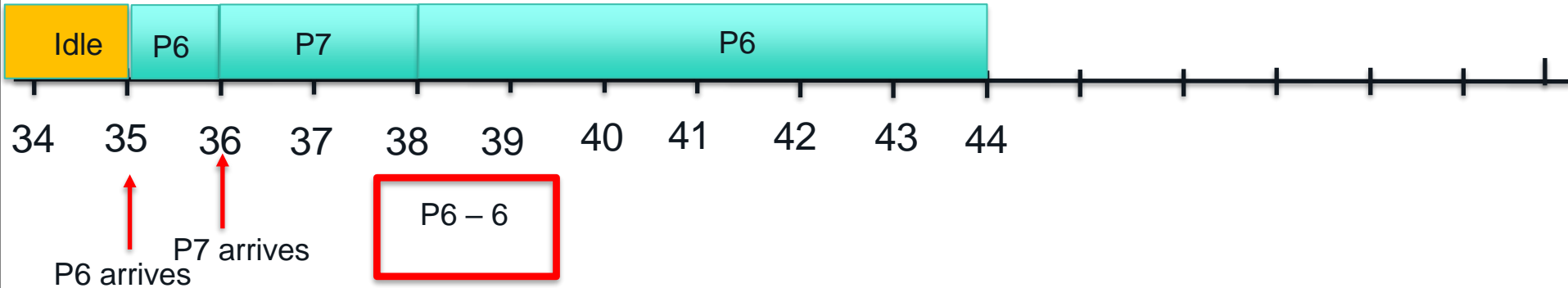
Input



Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input



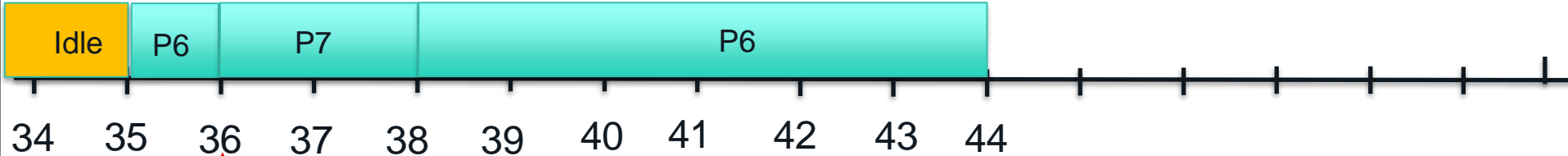


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P6 finishes



P6 – 6

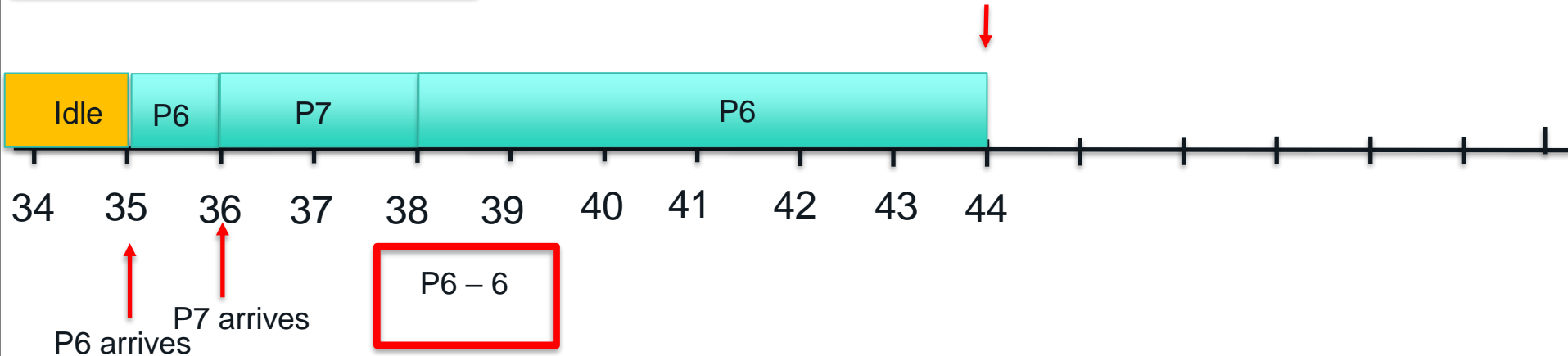
P6 arrives  
P7 arrives

Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P6 starts at time 35 and finishes at time 44

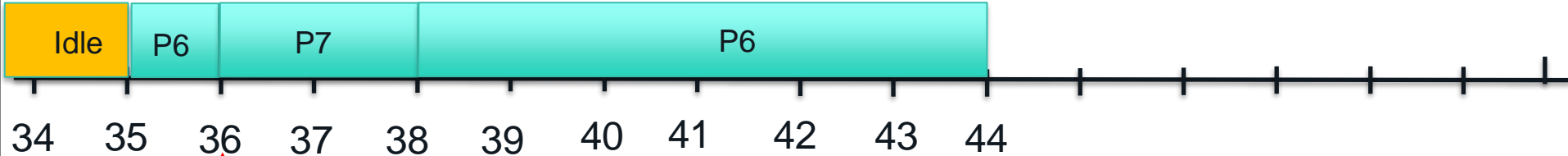


Process	Arrival	RunTime
1	0	4
2	7	10
3	9	2
4	13	8
5	25	1
6	35	7
7	36	2



Input

P6 starts at time 35 and finishes at time 44



P6 – 6

P6 arrives  
P7 arrives

**END!**

*There can be several ways implement an algorithm!*

