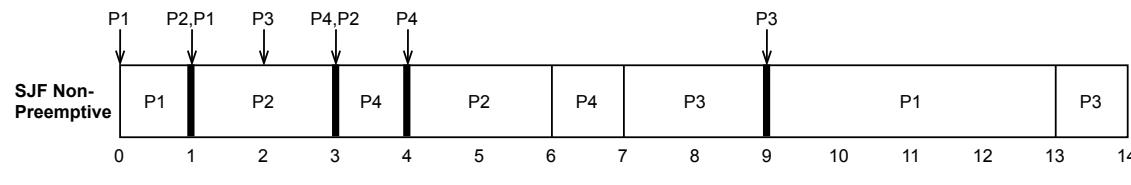


$$\begin{aligned} T_{\text{waiting}} &= [(3-1)+(10-3)+(7-2)+ \\ &\quad (12-9)+(9-4)+(13-10)]/4 \\ &= (2+7+5+3+5+3)/4 \\ &= 25/4 = 6,25 \text{ ms} \end{aligned}$$

$$\begin{aligned} T_{\text{turnaround}} &= [(7-0)+(12-1)+(13-2)+(14-3)]/4 \\ &= (7+11+11+11)/4 \\ &= 40/4 = 10 \text{ ms} \end{aligned}$$

P1:	0(5) -> 1.2(4)	1.2(4) -> (0)
P2:	1.1(4) -> 3.2(2)	3.2(2) -> (0)
P3:	2(3)	2(3) -> 9(1)
P4:	3.1(2)	3.1(2) -> 10(1)

$$\begin{aligned} T_{\text{response}} &= [(1-0)+(3-1)+(9-2)+(10-3)]/4 \\ &= (1+2+7+7)/4 \\ &= 17/4 = 4,25 \text{ ms} \end{aligned}$$

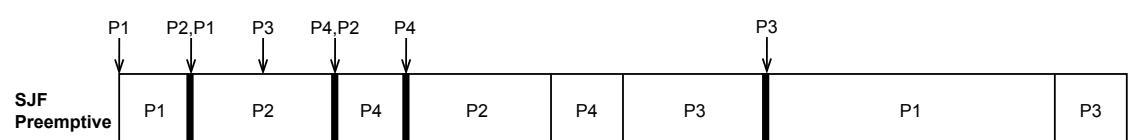


$$\begin{aligned} T_{\text{waiting}} &= [(9-1)+(4-3)+(7-2)+ \\ &\quad (13-9)+(6-4)]/4 \\ &= (8+1+5+4+2)/4 \\ &= 20/4 = 5 \text{ ms} \end{aligned}$$

$$\begin{aligned} T_{\text{turnaround}} &= [(13-0)+(6-1)+(14-2)+(7-3)]/4 \\ &= (13+5+12+4)/4 \\ &= 34/4 = 8,5 \text{ ms} \end{aligned}$$

P1:	(5) -> (4)	(4) -> (0)
P2:	(4) -> (2)	(2) -> (0)
P3:	(3)	(3) -> (1)
P4:	(2) -> (1)	(1) -> (0)

$$\begin{aligned} T_{\text{response}} &= [(1-0)+(3-1)+(9-2)+(4-3)]/4 \\ &= (1+2+7+1)/4 \\ &= 11/4 = 2,75 \text{ ms} \end{aligned}$$

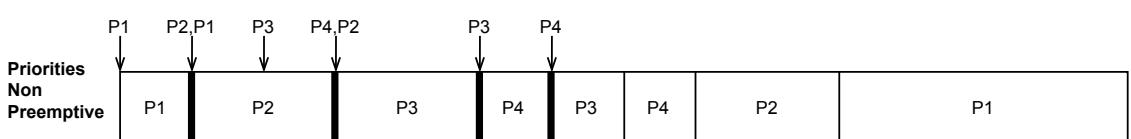


$$T_{\text{waiting}} = \text{SJF Non Preemptive}$$

$$T_{\text{turnaround}} = \text{SJF Non Preemptive}$$

P1:	(5) -> (4)	(4) -> (0)
P2:	(4) -> (3) -> (2)	(2) -> (0)
P3:	(3)	(3) -> (1)
P4:	(2) -> (1)	(1) -> (0)

$$T_{\text{response}} = \text{SJF Non Preemptive}$$

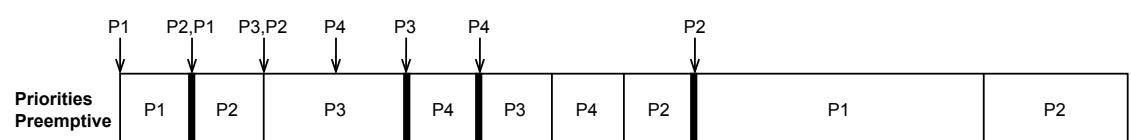


$$\begin{aligned} T_{\text{waiting}} &= [(10-1)+(8-3)+(3-2)+ \\ &\quad (6-5)+(5-3)+(7-6)]/4 \\ &= (9+5+1+1+2+1)/4 \\ &= 19/4 = 4,75 \text{ ms} \end{aligned}$$

$$\begin{aligned} T_{\text{turnaround}} &= [(14-0)+(10-1)+(7-2)+(8-3)]/4 \\ &= (14+9+5+5)/4 \\ &= 33/4 = 8,25 \text{ ms} \end{aligned}$$

P1:	4(5) -> 4(4)	4(4) -> 4(0)
P2:	3(4) -> 3(2)	3(2) -> 3(0)
P3:	1(3)	1(3) -> 1(1)
P4:	2(2)	2(2) -> 2(1)

$$\begin{aligned} T_{\text{response}} &= [(1-0)+(3-1)+(5-2)+(6-3)]/4 \\ &= (1+2+3+3)/4 \\ &= 9/4 = 2,25 \text{ ms} \end{aligned}$$

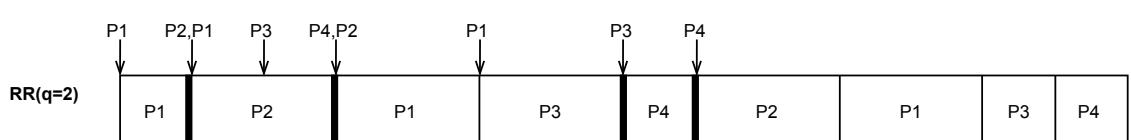


$$\begin{aligned} T_{\text{waiting}} &= [(8-1)+(7-2)+(12-8)+ \\ &\quad (5-4)+(4-3)+(6-5)]/4 \\ &= (7+5+4+1+1+1)/4 \\ &= 19/4 = 4,75 \text{ ms} \end{aligned}$$

$$\begin{aligned} T_{\text{turnaround}} &= [(12-0)+(14-1)+(6-2)+(7-3)]/4 \\ &= (12+13+4+4)/4 \\ &= 33/4 = 8,75 \text{ ms} \end{aligned}$$

P1:	4(5) -> 4(4)	4(4) -> 4(0)
P2:	3(4) -> 3(3)	3(3) -> 3(2)
P3:	1(3) -> 1(1)	1(1) -> 1(0)
P4:	2(2)	2(2) -> 2(1)

$$\begin{aligned} T_{\text{response}} &= [(1-0)+(8-1)+(4-2)+(5-3)]/4 \\ &= (1+7+2+2)/4 \\ &= 12/4 = 3 \text{ ms} \end{aligned}$$



$$\begin{aligned} T_{\text{waiting}} &= [(3-1)+(10-5)+(8-3)+(5-2)+ \\ &\quad (12-7)+(7-3)+(13-8)]/4 \\ &= (2+5+5+3+5+4+5)/4 \\ &= 29/4 = 7,25 \text{ ms} \end{aligned}$$

$$\begin{aligned} T_{\text{turnaround}} &= [(12-0)+(10-1)+(13-2)+(14-3)]/4 \\ &= (12+9+11+11)/4 \\ &= 43/4 = 10,75 \text{ ms} \end{aligned}$$

P1:	0(5) -> 1(4)	0(4) -> 3(2)	3(2) -> 2(2)	2(2) -> 1(2)	1(2) -> 0(2)	0(2) -> (0)
P2:	0(4) -> 3(2)	2(2)	1(2)	0(2)	-> (0)	
P3:	2(3)	1(3)	0(3)	3(1)	2(1)	1(1)
P4:	2(2)	1(2)	0(2)	3(1)	2(1)	1(1)

$$\begin{aligned} T_{\text{response}} &= [(1-0)+(3-1)+(7-2)+(8-3)]/4 \\ &= (1+2+5+5)/4 \\ &= 13/4 = 3,25 \text{ ms} \end{aligned}$$