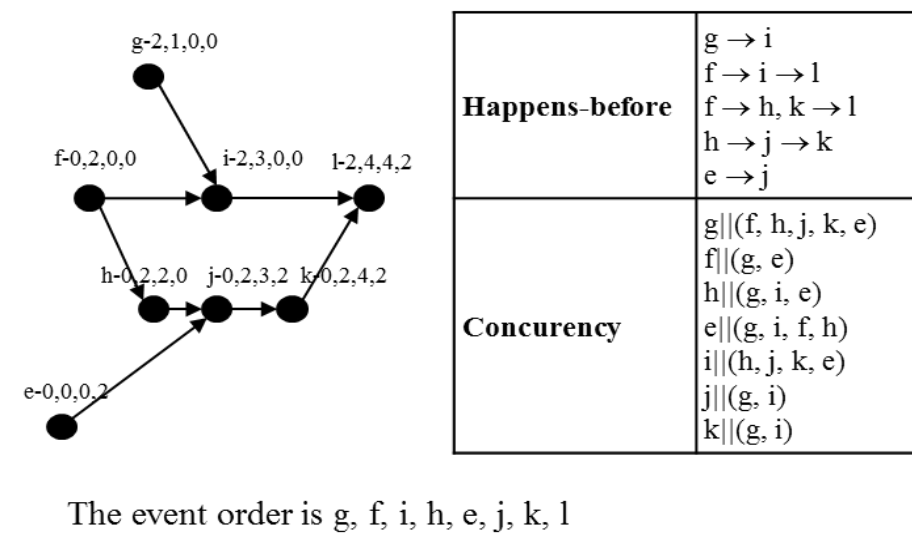
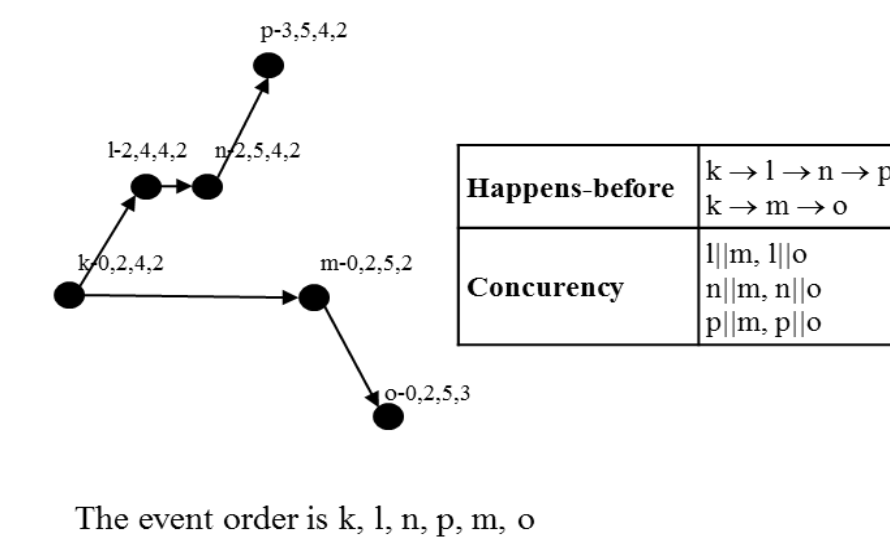
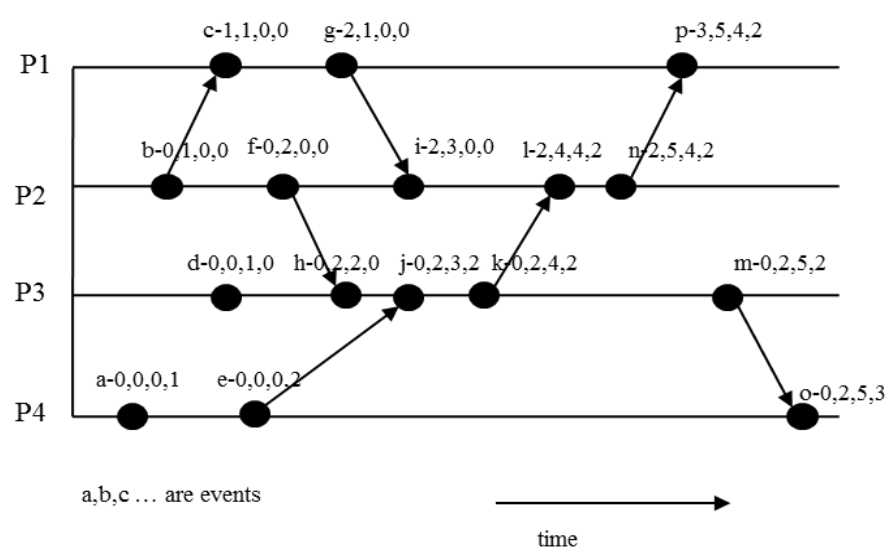
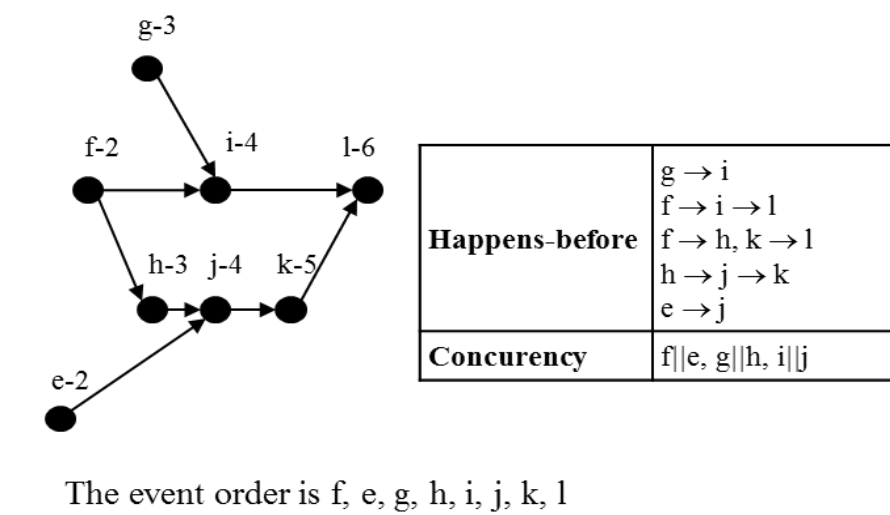
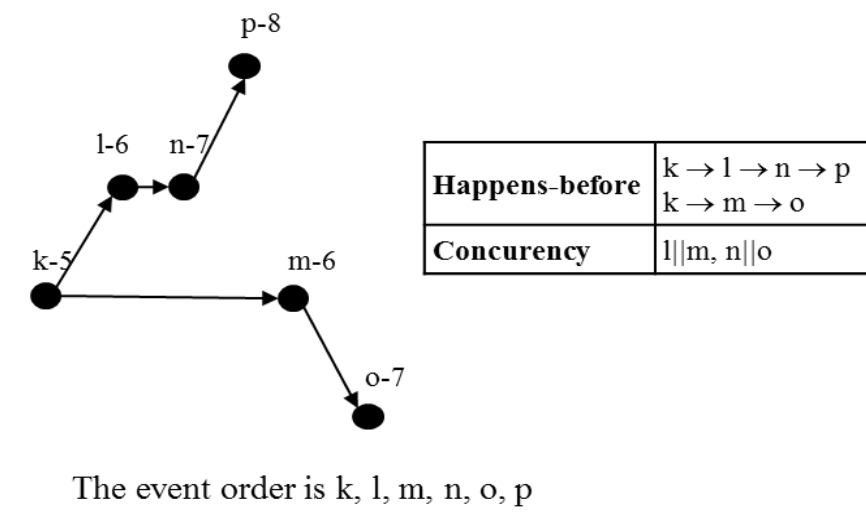
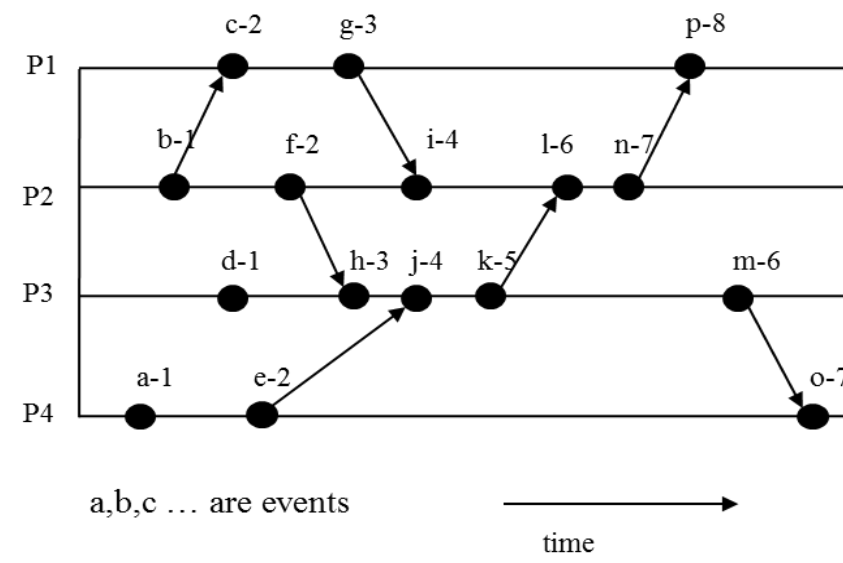
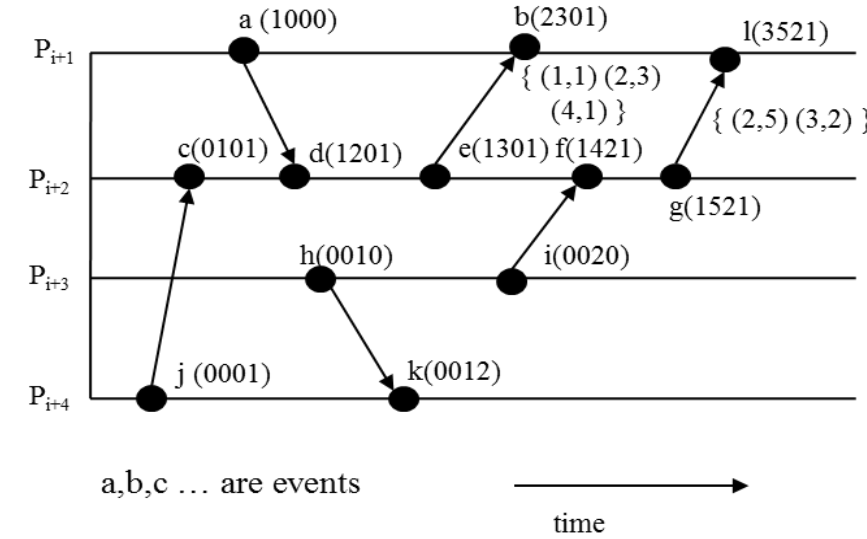


Q11



Q12



		(c)	(d)	(e)	(f)	(g)
LS_{i+2}	0			3		5
	0			0		0
	0			0		0
	0			0		0
LU_{i+2}	0	0	2	2	2	2
	0	1	2	3	4	5
	0	0	0	0	4	4
	0	1	1	1	1	1

At (e) $\begin{pmatrix} 2 \\ 3 \\ 0 \\ 1 \end{pmatrix} \stackrel{?}{>} (LS_{i+2}(l) = 0) = \begin{pmatrix} 1 \\ 1 \\ 0 \\ 1 \end{pmatrix}$

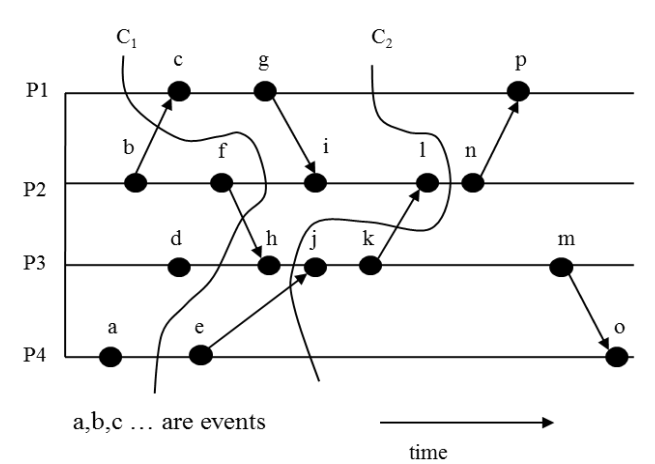
The $\{(1,1) (2,3) (4,1)\}$ timestamp will be sent.

At (g) $\begin{pmatrix} 2 \\ 5 \\ 4 \\ 0 \end{pmatrix} \stackrel{?}{>} (LS_{i+2}(l) = 3) = \begin{pmatrix} 0 \\ 1 \\ 1 \\ 0 \end{pmatrix}$

The $\{(2,5) (3,2)\}$ timestamp will be sent.

Q2

history	H	abcdefghijklmnop		
	h1	cgp		
	h2	bfiln		
	h3	dhjkm		
	h4	aeo		
Cuts	C1	bfd a	frontier	f d a
	C2	c g b f i l d h a e	frontier	g l h e
			consistent	no consistent
			no consistent	



run and linearization run	run	linearization
c g f d b h	no	f is not happens-before of b in local execution of P2
f e h i g j	yes	i is not happens-before of g
d b c a h e j	yes	we have f happens-before of h but f is not in the event cut

