

Initially,

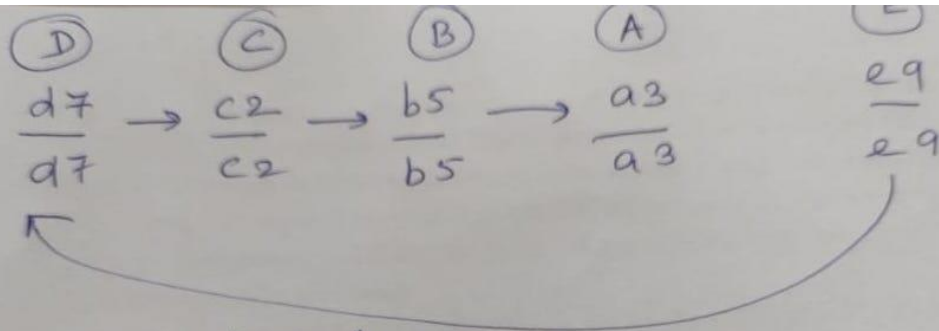
$$\frac{d'7}{d'7}$$

$$\frac{c'2}{c'2}$$

$$\frac{b'5}{b'5}$$

$$\frac{a3}{a3}$$

$$\frac{e'9}{e'9}$$



Blocked on A

Then, C blocked on B

Then, D C

" , E D

$\therefore e > d > c > b > a$

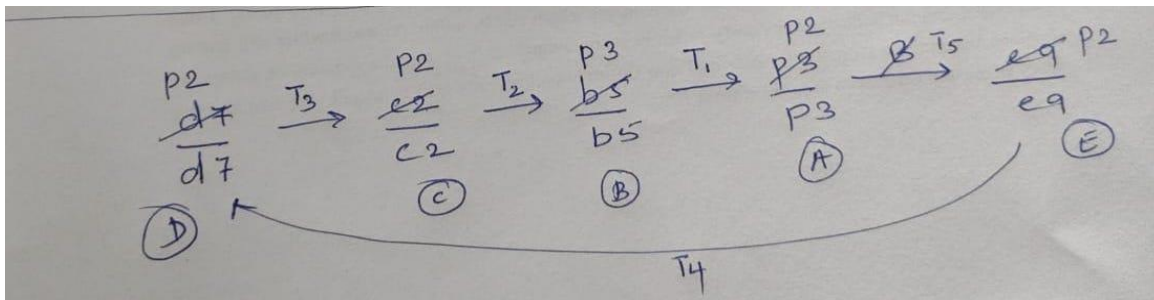
Now, A blocks on E

$\begin{matrix} \circ & \circ & \frac{a3}{a3} & \xrightarrow{\text{block}} & \frac{e9}{e9} \end{matrix}$ becomes $\frac{p3}{p3} \xrightarrow{\text{block}} \frac{e9}{e9}$
 when $p > a \& e$

That is,

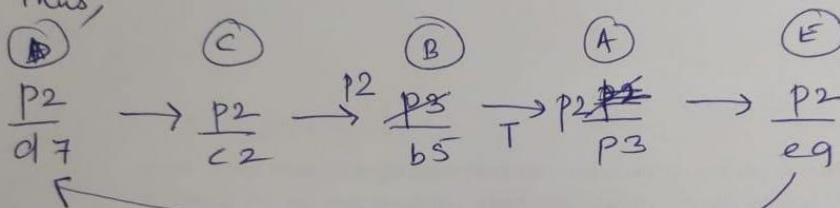
$\frac{d7}{d7} \rightarrow \frac{c2}{c2} \rightarrow \frac{b5}{b5} \rightarrow \frac{p3}{p3} \xrightarrow{B} \frac{e9}{e9}$
 Which leads to a transmit

Because $p > e > d > c > b > a$



Further, transmit condition holds b/w A & B

Thus,



This leads to process C detecting a deadlock!

