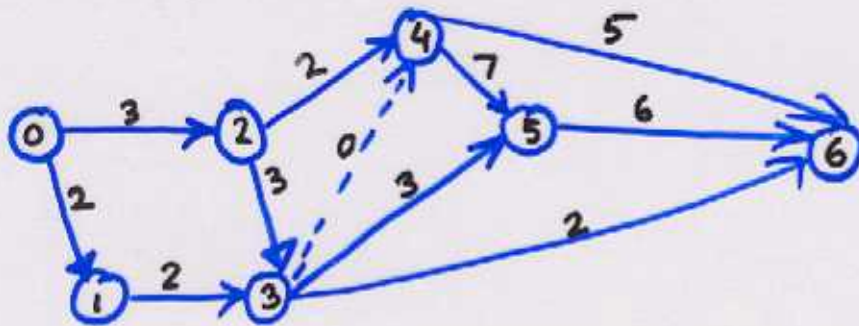


CRITICAL PATH COMPUTATION

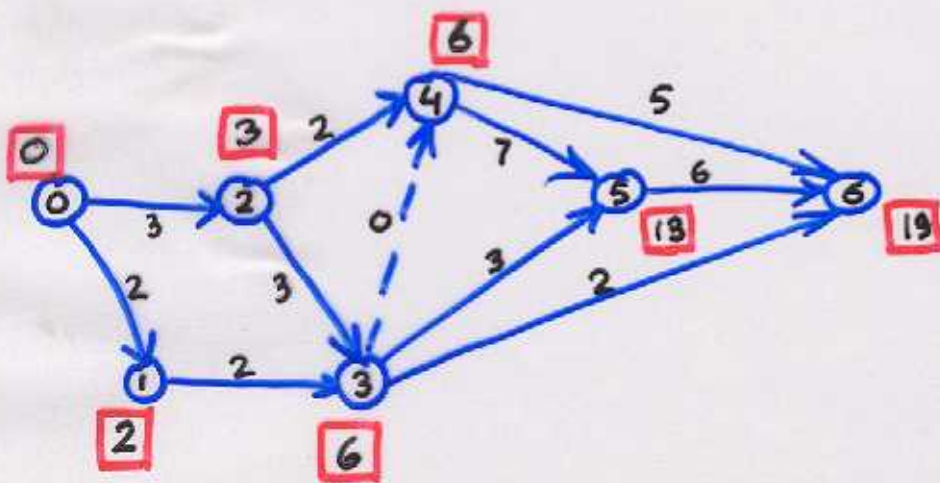
HERE WE SHALL USE AN EXAMPLE



THE NUMBERS ON THE LINKS REPRESENT THE TIME TAKEN TO COMPLETE THE ACTIVITY

STEP I: FORWARD PASS

HERE COMPUTATION BEGINS WITH START NODE AND ENDS WITH END-NODE. THE AIM IS TO CALCULATE, AT EVERY NODE i , THE EARLIEST TIMES AT WHICH THE EVENT (CORRESPONDING TO i) COULD OCCUR (ES_i). IN THE FOLLOWING FIGURE THESE VALUES ARE SHOWN IN \square ADJACENT TO EACH NODE.



NOTE:

$$ES_j = \max_i \{ES_i + D_{ij}\}$$

WHERE D_{ij} ARE ACTIVITIES COMING INTO j AND STARTING FROM i .

THE ABOVE IS EVALUATED ONLY FOR THOSE i 'S FROM WHICH THERE IS A D_{ij} INCIDENT UPON THE NODE OF INTEREST j .

FOR EXAMPLE

$$\begin{aligned} ES_6 &= \max \{ES_4 + D_{46}, ES_5 + D_{56}, ES_3 + D_{36}\} \\ &= \max \{6 + 5, 13 + 6, 6 + 2\} \\ &= \max \{11, 19, 8\} = 19. \end{aligned}$$