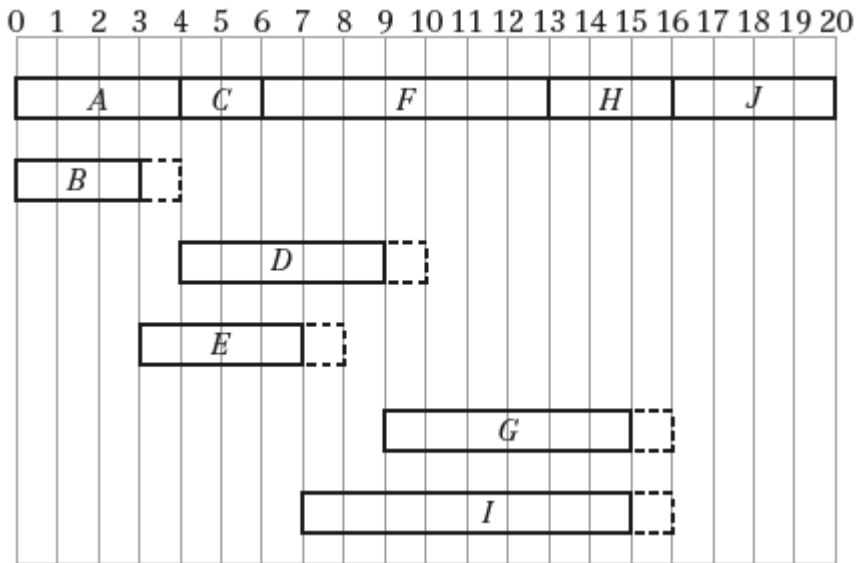


Exercise 6F

1

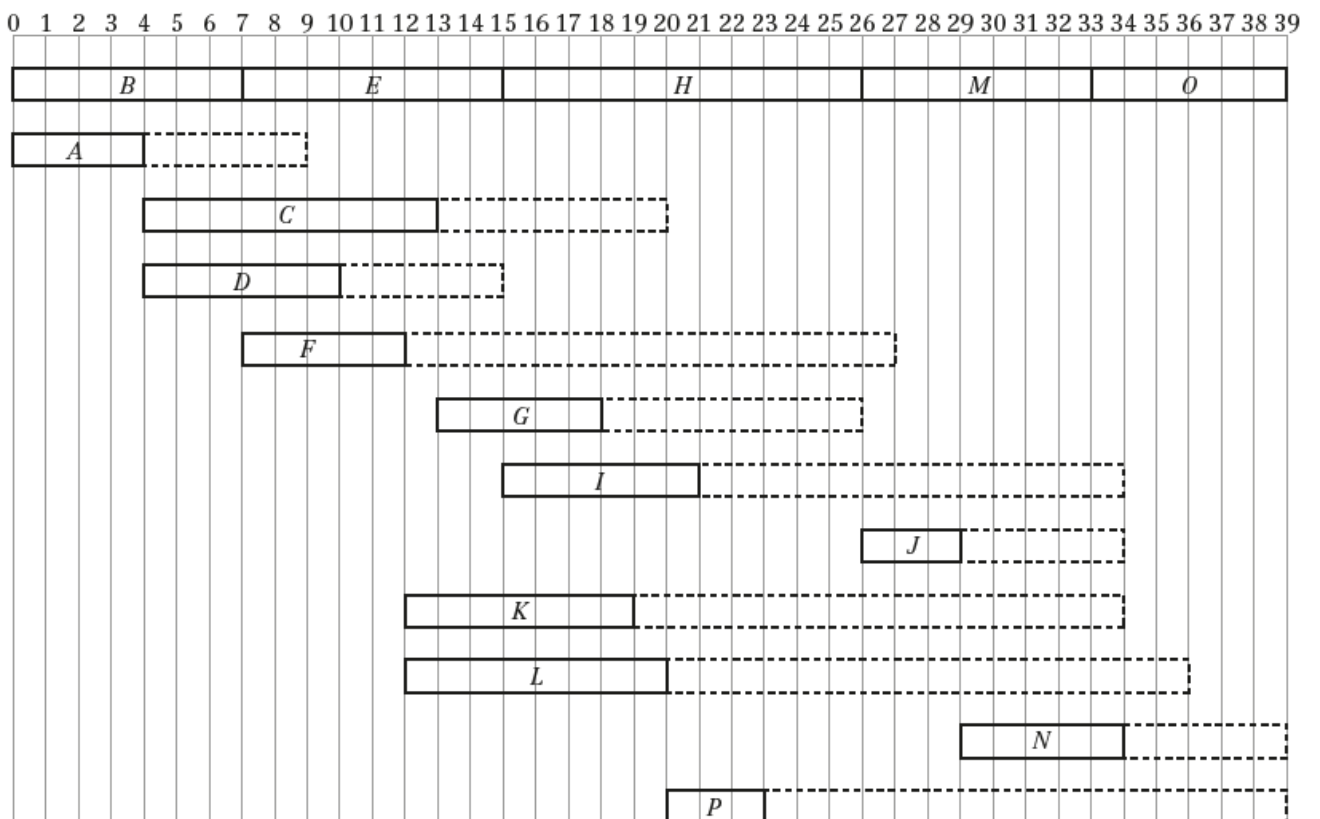


2 a  $w = 26$        $x = 29$        $y = 34$        $z = 26$

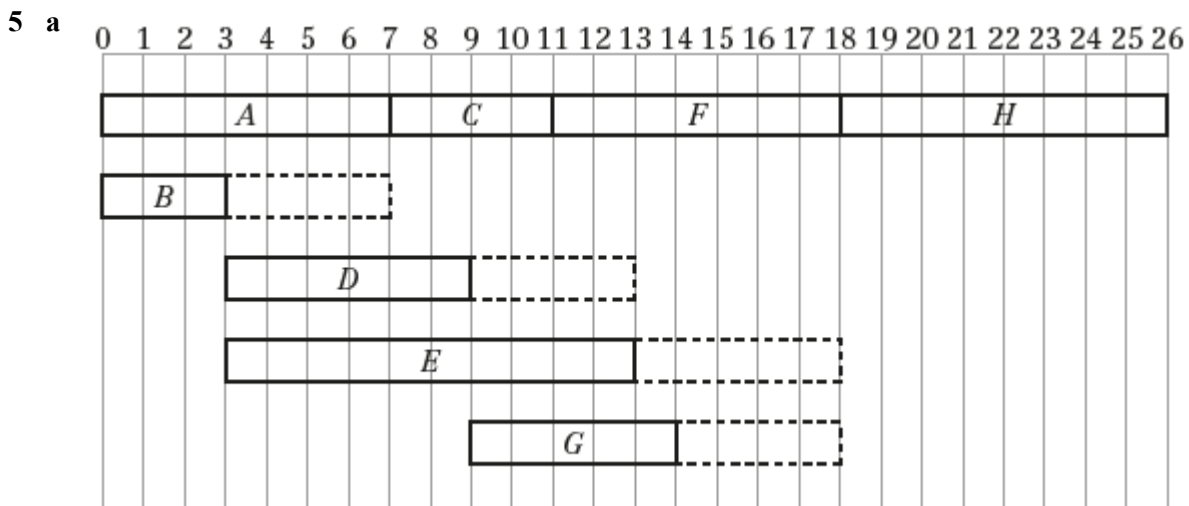
b Critical activities: *B, E, H, M, O*

c Total float for *G* =  $26 - 5 - 13 = 8$   
 Total float for *N* =  $39 - 5 - 29 = 5$

d

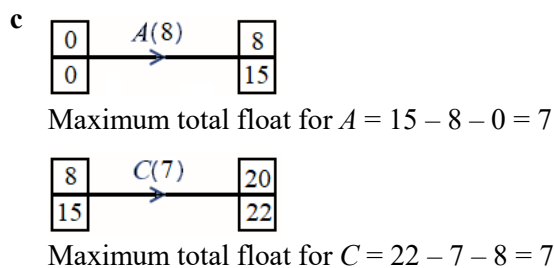


- 3 a *A, E*  
 b *G, H*  
 c *F, H*
- 4 a *C, D*  
 b *E, G*

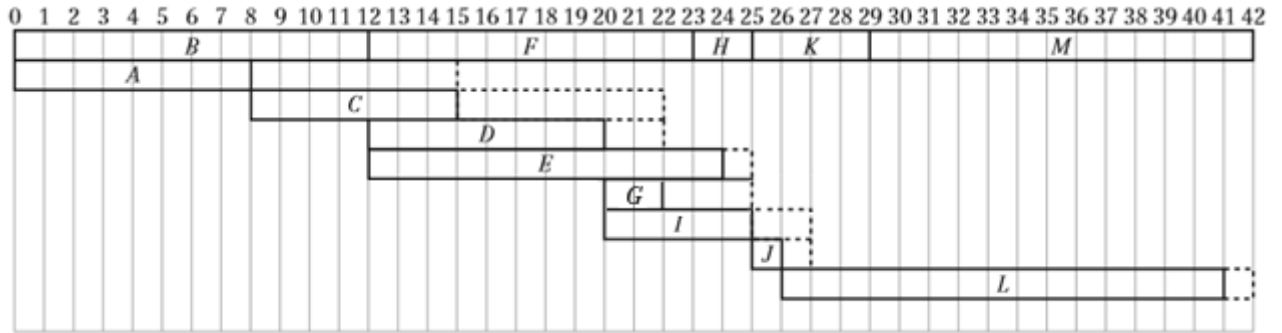


- b *B, D and E* may be happening at midday on day 5.
- c Only *A* must be happening at midday on day 7.
- 6 a The largest value  $y$  is an early event time and calculated starting from 0 at the source node and working towards the sink node.  
 $y = 12 + 11 + 2$   
 $= 25$   
 The late event times are calculated starting from the sink node and working backwards towards the source node.  
 $x = 42 - 15 - 5 - 7$   
 $= 15$   
 $z = 42 - 15$   
 $= 27$

b The critical path is *BFHKM*



6 d



- e Activity *I* has duration 5 hours, an earliest start time of 20 days and a latest finish time of 27 days. Activity *I* can start on day 22 for the project to be completed on time.