Critical path analysis 8B

1

Activity	Depends on
A	–
B	–
C	A
D	A
E	C
F	B, C, D
G	B, C, D
H	E, F

2 a The dotted line is a dummy. It shows that activity F depends on activities B and D, whereas activity G only depends on activity B.

b

Activity	Depends on
A	–
B	–
C	A
D	A
E	C
F	B, D
G	B

Activity A and B are linked to the source node and do not depend on any other activities.
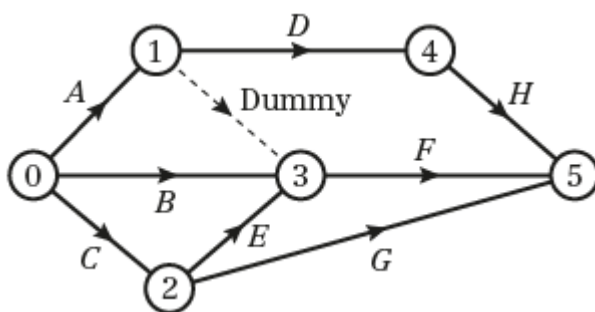
Activity C is linked to node 1 which depends on A.
Activity D is linked to node 1 which depends on A.
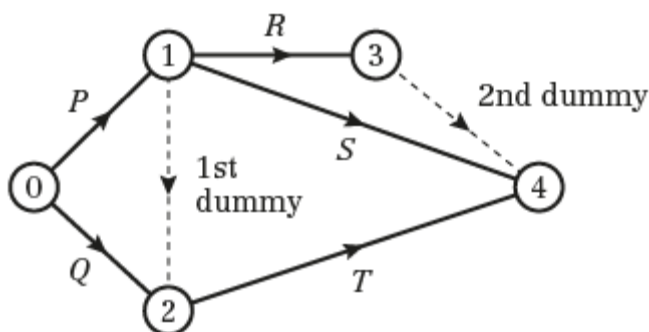Activity E is linked to node 3 which depends on C.
Activity F is linked to node 2, by the dummy, which depends on B and node 4 which is dependent on D.
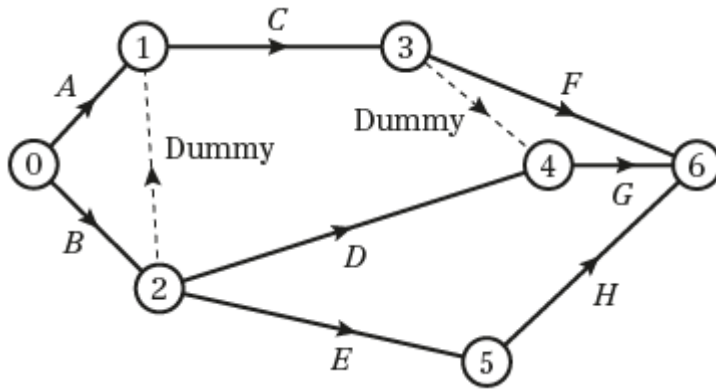Activity G is linked to node 2 which depends on B.

3

4 a

4 b 1st dummy.
    S depends on P only.
    T depends on P and Q.

    2nd dummy.
    So that S and R don't share a start and end event.

5

Activity A and B are linked to the source node and do not depend on any other activities.
Activity C is linked to node 1 which depends on A. It is also linked by a dummy to node 2 which is dependent on B.
Activity D is linked to node 2 which depends on B.
Activity E is linked to node 2 which depends on B.
Activity F is linked to node 3 which depends on C.
Activity G is linked by a dummy to node 3 which is dependent on C. It is also linked to node 4 which depends on D.
Activity H is linked to node 5 which depends on E.