

Question 1 (25% of max. credit)

The table below represents the data of a small engineering project.

- Draw the corresponding AOA network.
- Calculate the earliest and latest events' times.
- Determine the project duration and the critical path.
- Compute the early start, late start, early finish, late finish, total float, free float, interfering float and independent float of activity "C".

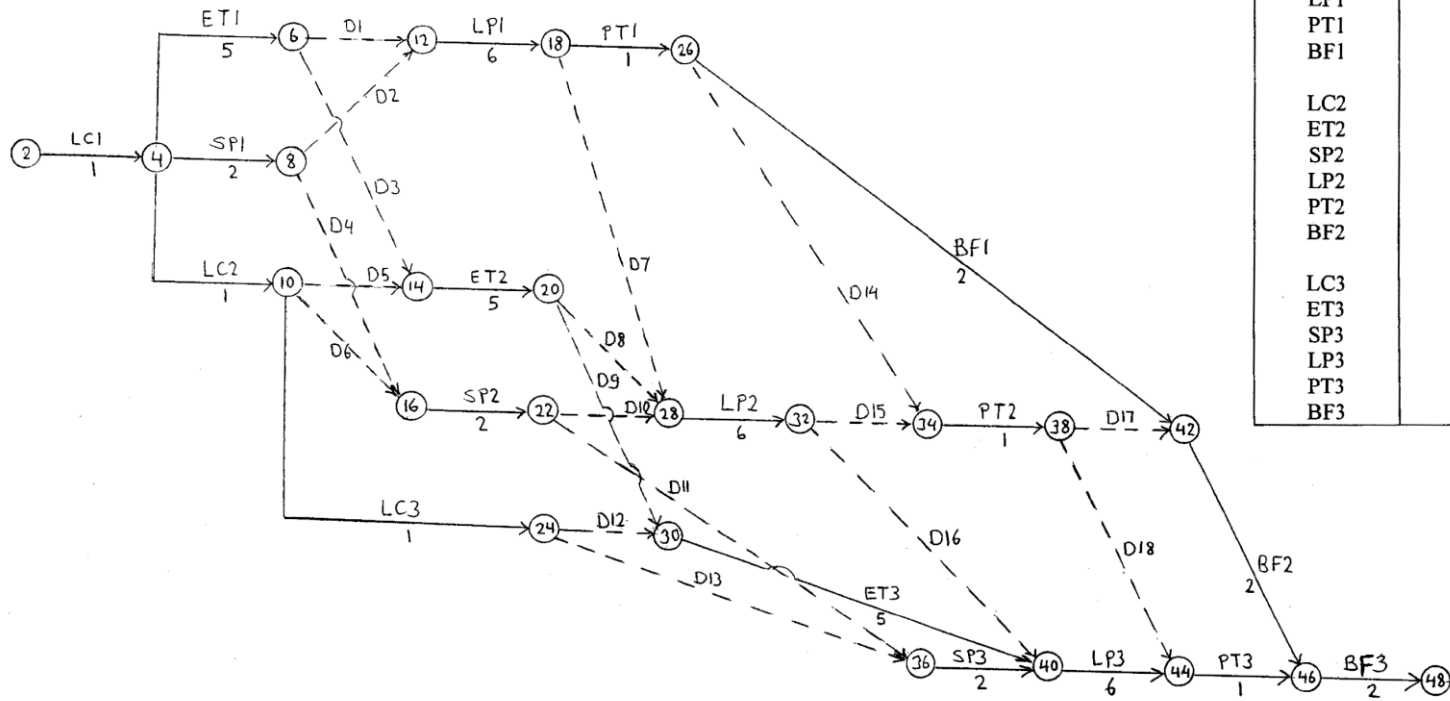
Activity	Predecessor activity(ies)	Time (days)
A	None	5
B	A	7
C	A	4
D	A	8
E	B	6
F	D	8
G	E, C, F	3
H	G	4
I	G	6

Question 2

Consider plan of a small project given in Table below. Draw the corresponding AOA network. Analyze the network to determine the critical path and project completion time.

Activity	Predecessor(s)	Duration (weeks)
A	-	4
B	A	4
C	A	4
D	A	7
E	D	7
F	B,D	6
G	C,E,F	7
H	F	14
I	G,H	14
J	B	15
K	C	10

For the shown AOA network, calculate TF of each activity. Show the **near** critical path.



Activity	TF
LC1	
ET1	
SP1	
LP1	
PT1	
BF1	
LC2	
ET2	
SP2	
LP2	
PT2	
BF2	
LC3	
ET3	
SP3	
LP3	
PT3	
BF3	