

Project Planning & Control

Lesson 4

Issues in PDM, Negative Lags, Problem #2 Solution

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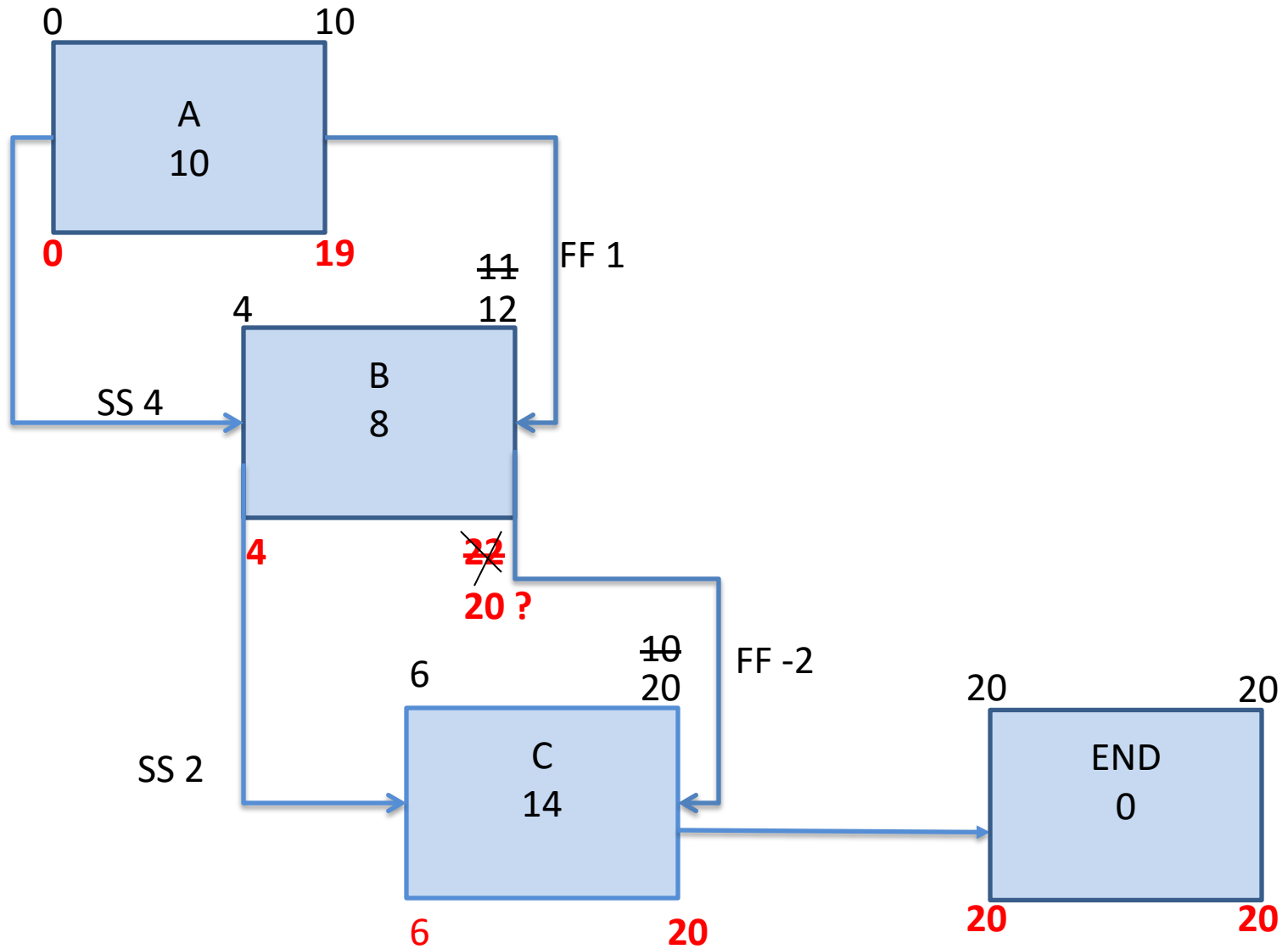
I.I.T. Madras



Learning Objectives

- Issues in PDM
- Analysis with non-continuous duration
- Types of Float in PDM
- Float Calculations
- Application Issues

Handle PDM with care!!



Negative Lags



Journal of Operations Management

Volume 1, Issue 3, February 1981, Pages 121–130



Precedence diagramming method: Some unusual characteristics and their implications for project managers

Jerome D. Wiest* (Professor of Management)

2006 AACE International Transactions

PS.02

The Great Negative Lag Debate

Mr. Edward E. Douglas III CCC PSP, Mr. Timothy T. Calvey PE PSP, Mr. Donald F. McDonald Jr. PE CCE PSP, and Mr. Ronald M. Winter PSP

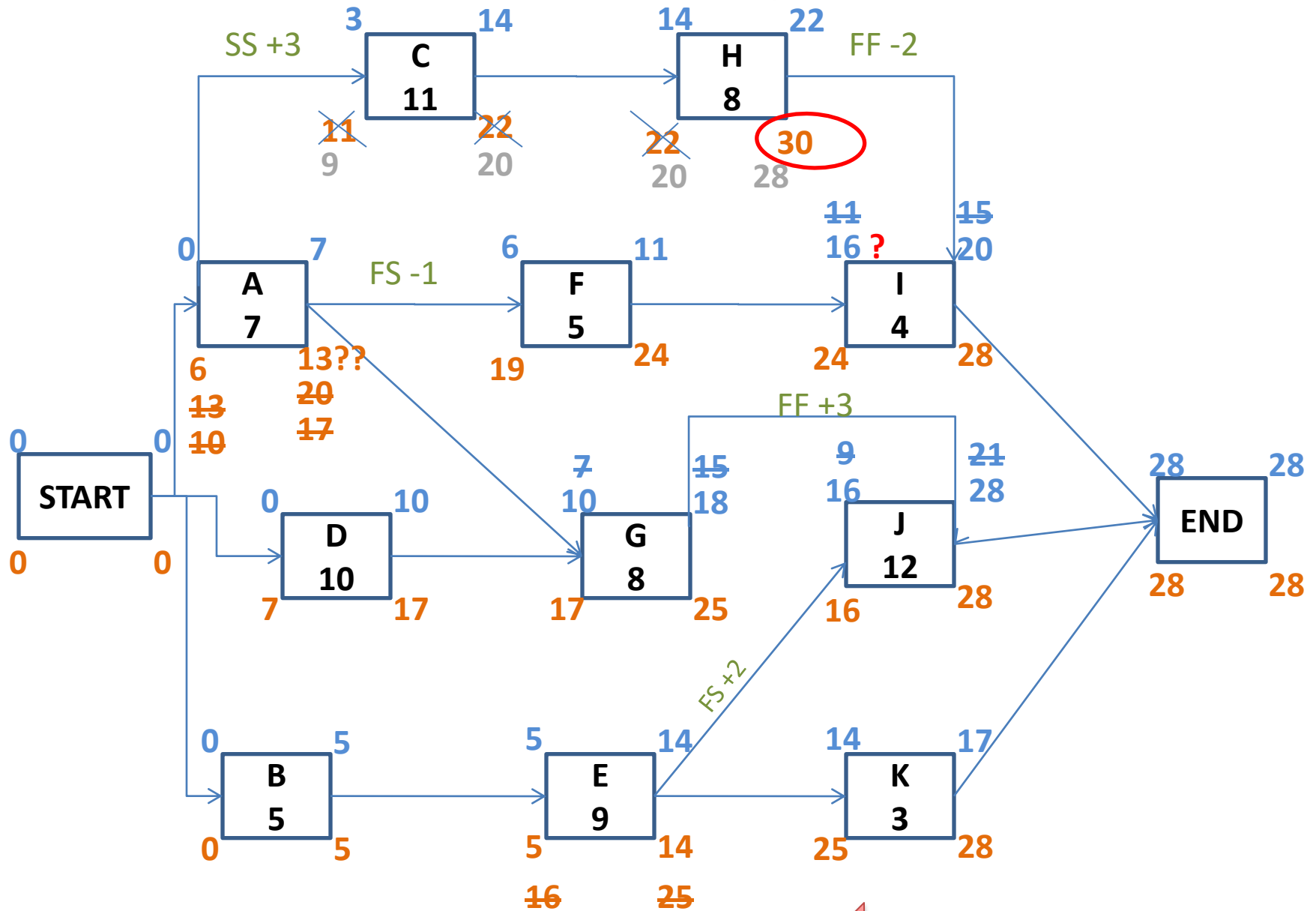
PDM – Problem #2

Activity	Predecessor	Duration
Start	-	0
A	Start	7
B	Start	5
C	A (SS +3)	11
D	Start	10
E	B	09
F	A (FS -1)	5
G	A,D	8
H	C	8
I	F H (FF -2)	4
J	E (FS +2) G (FF +3)	12
K	E	3
End	I,J,K	0

Draw PDM
Network & Find
ES, EF, LS, LF &
CRITICAL PATH

PDM – Problem #2 - Solution

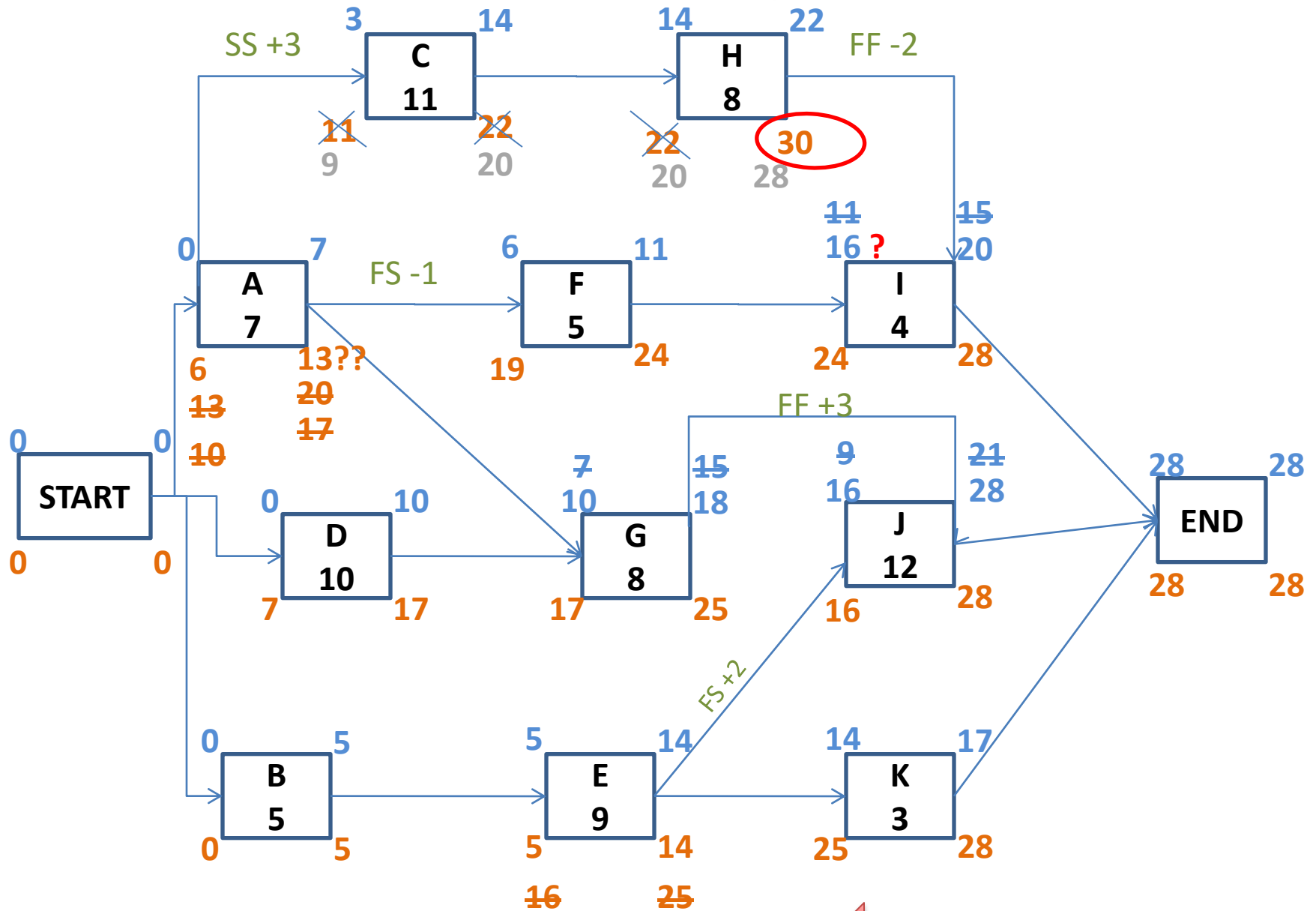
Forward Pass



Backward pass

PDM – Problem #2 - Solution

Forward Pass



Backward pass