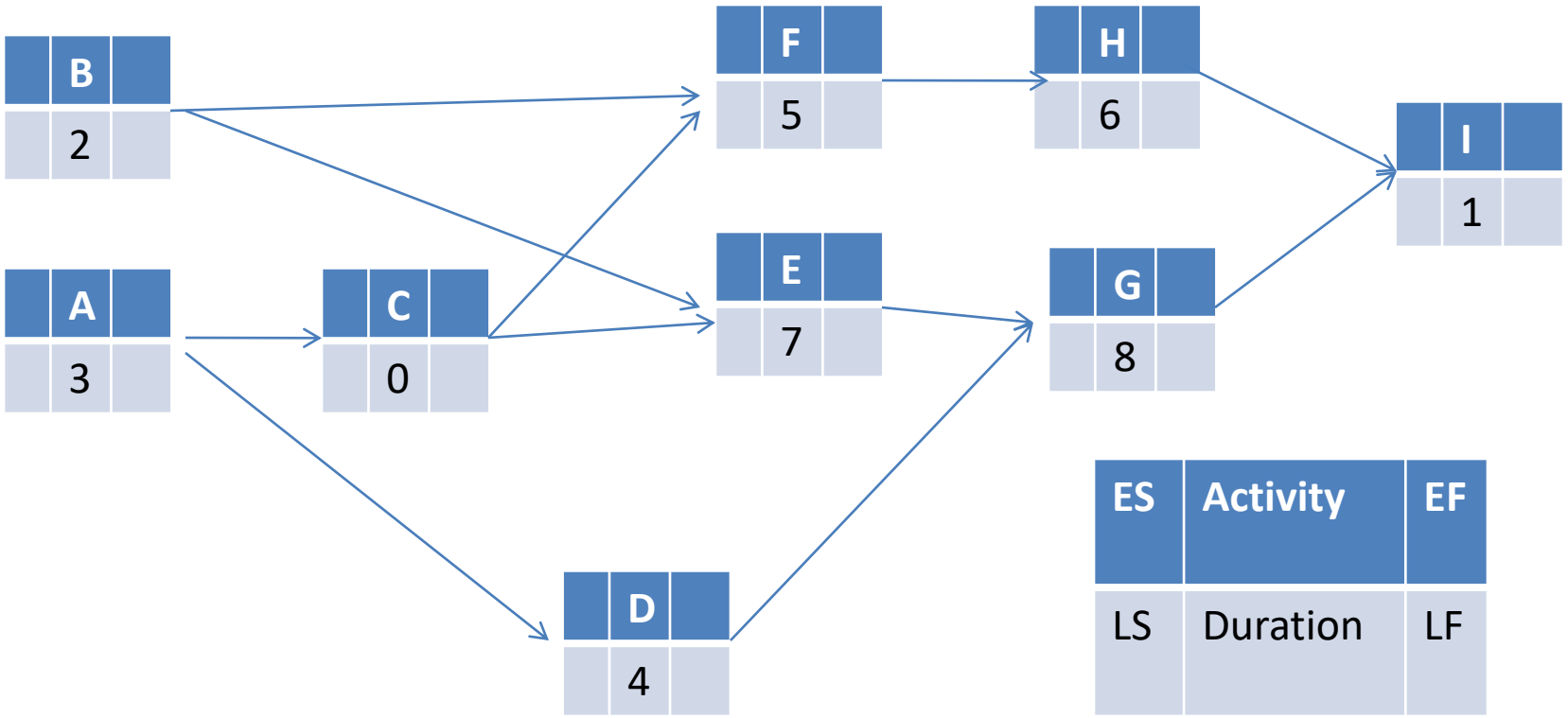
ICTPM

Review Class

Why critical path analysis is important? Draw a network (AOA or PDM) diagram and find out the EST, EFT, LST, LFT, TF, free float, interfering float, and project completion time of an project having following details.

Activity	A	B	C	D	E	F	G	H	I
Duration (days)	3	2	0	4	7	5	8	6	1
Predecessor	-	-	A	A	B,C	B,C	D,E	F	G,H



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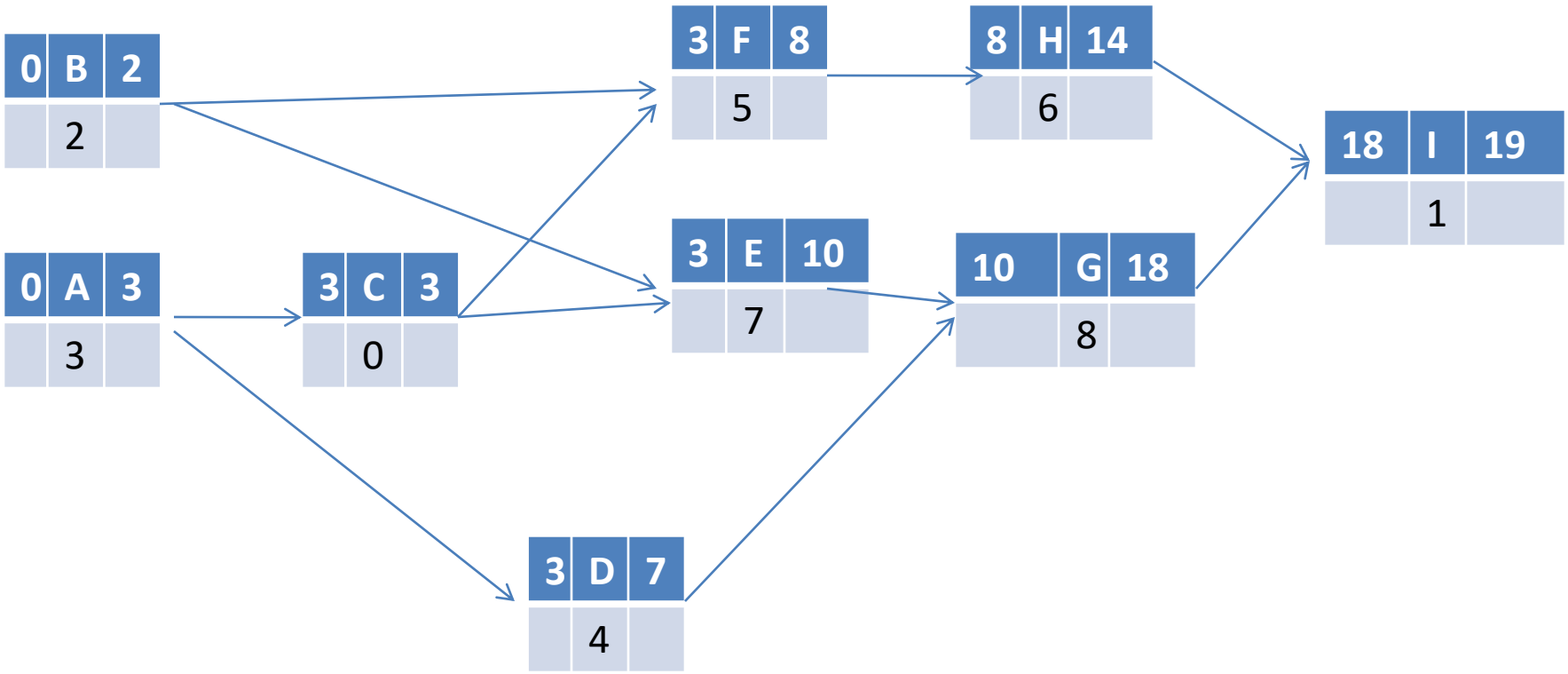
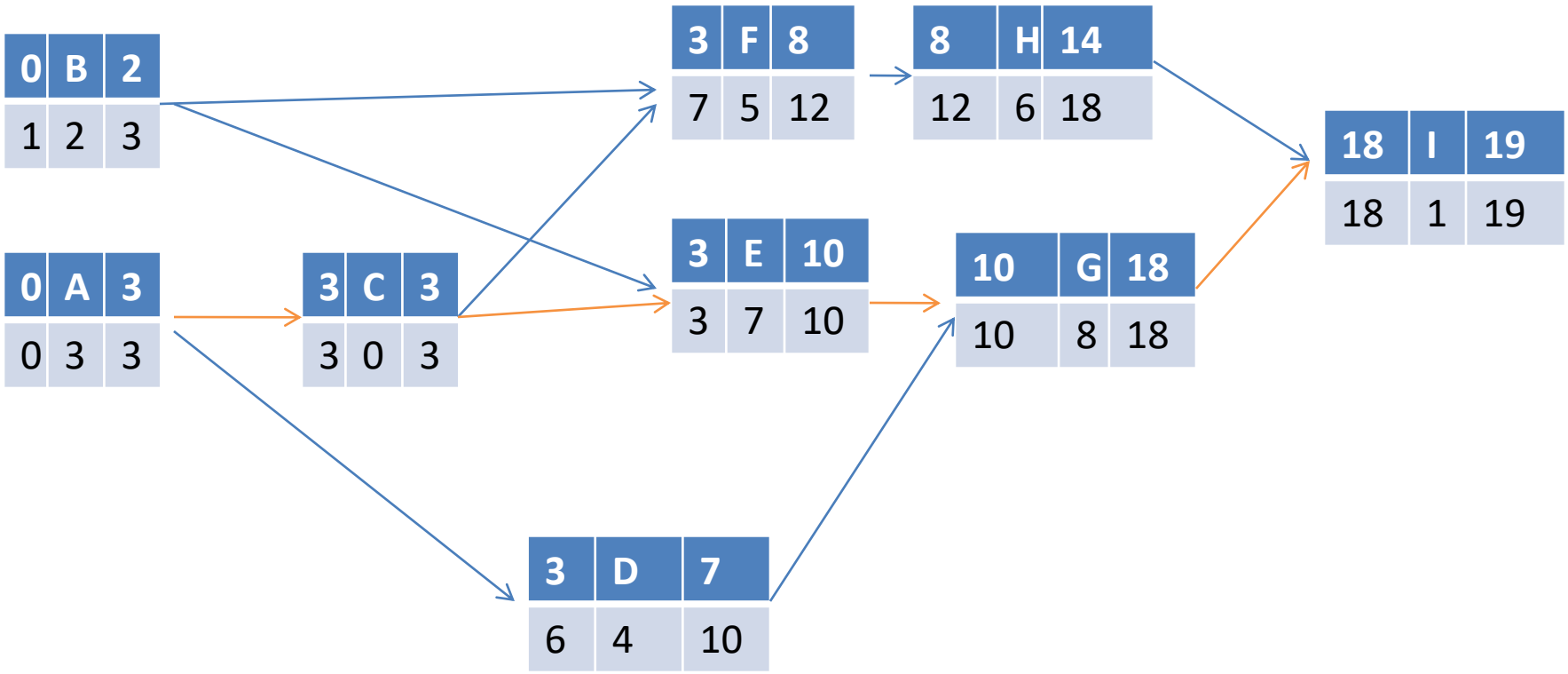
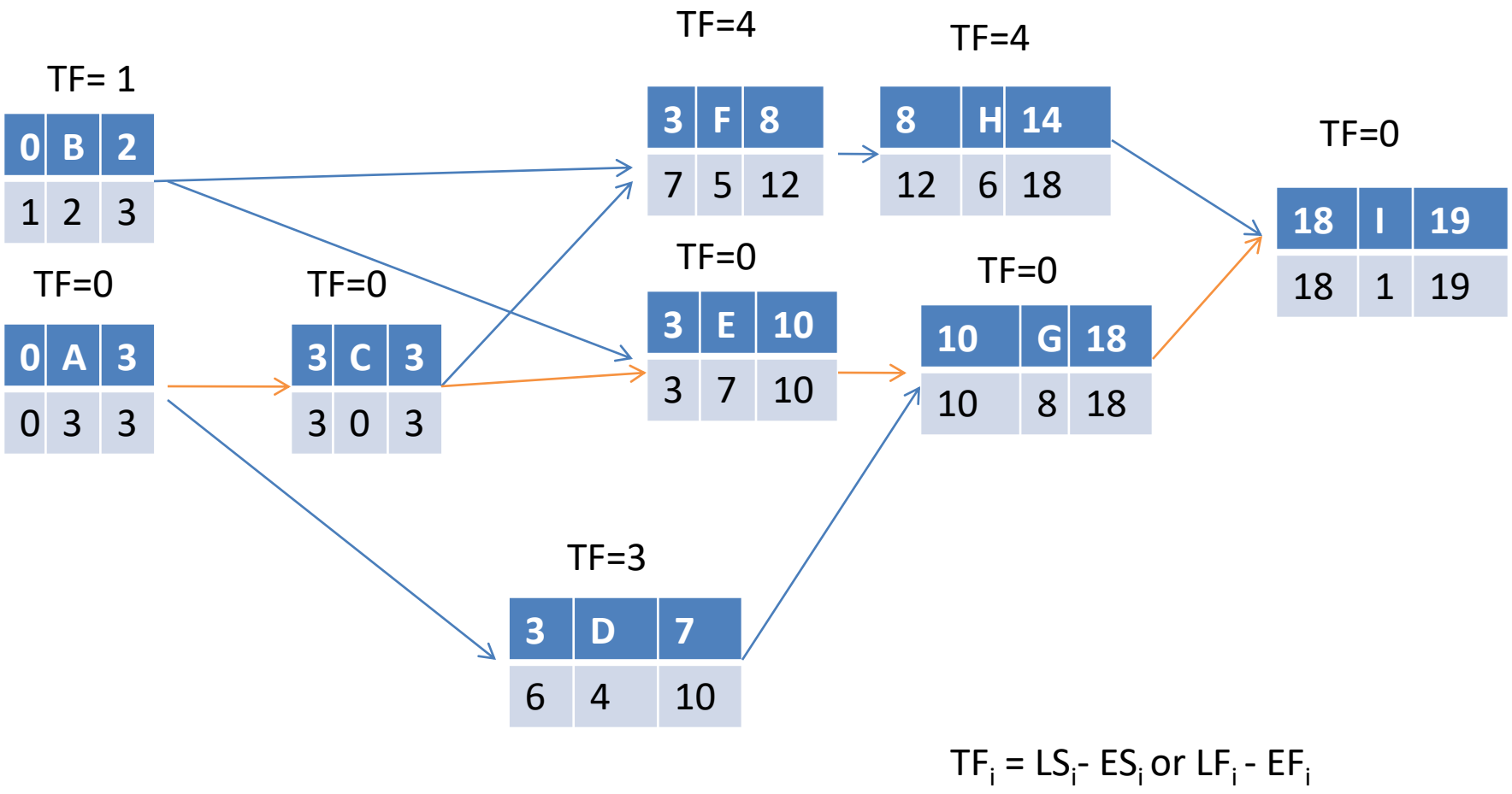
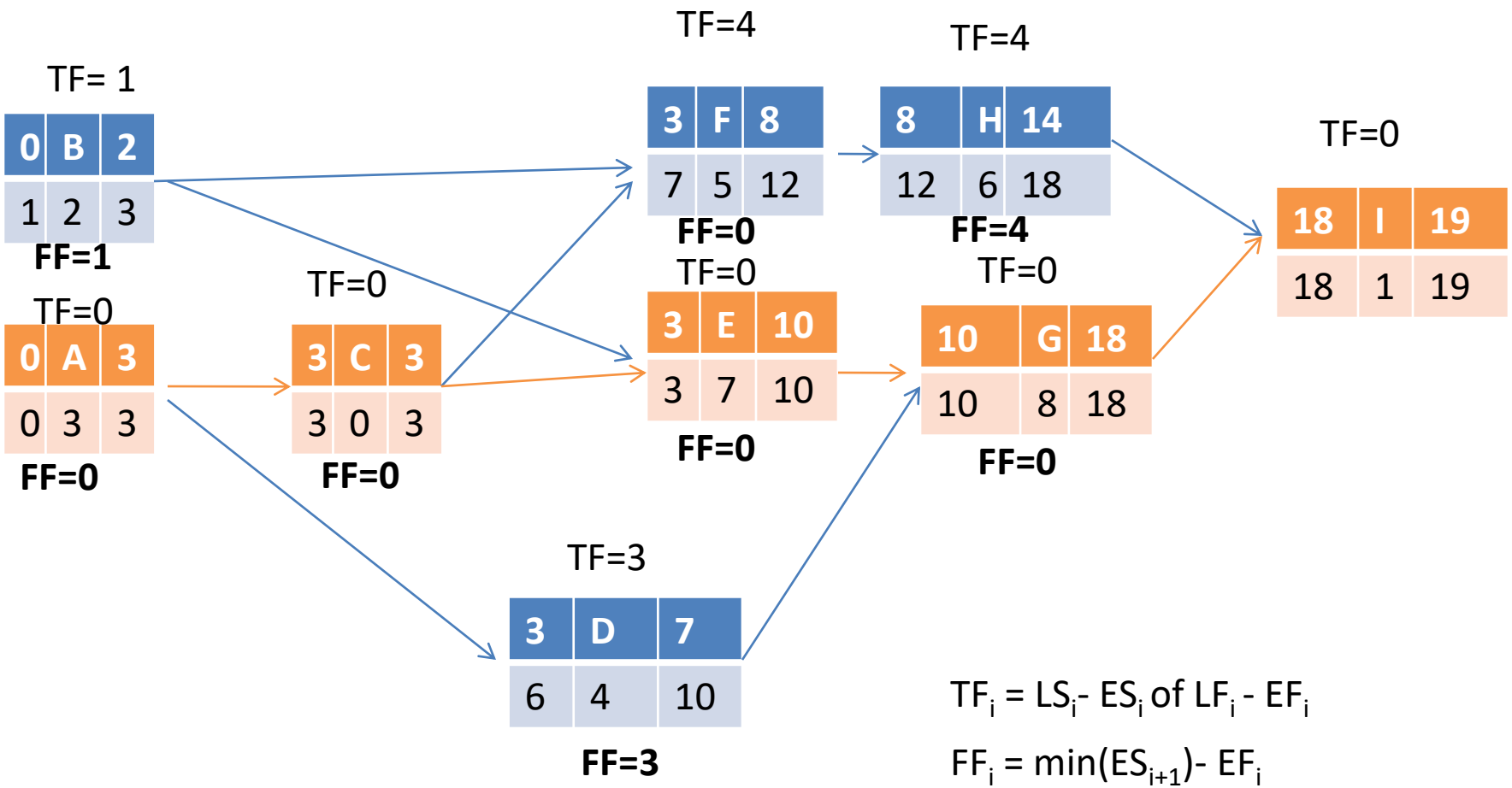
Predecessor	-	-	A	A	B,C	B,C	D,E	F	G,H


0 B 2
2
3 F 8
5
8 H 14
6
18 I 19
1
0 A 3
3
3 C 3
0
3 E 10
7
10 G 18
8
3 D 7
4


0 B 2
1 2 3
0 A 3
0 3 3
3 C 3
3 0 3
3 F 8
7 5 12
8 H 14
12 6 18
3 E 10
3 7 10
10 G 18
10 8 18
3 D 7
6 4 10
18 I 19
18 1 19

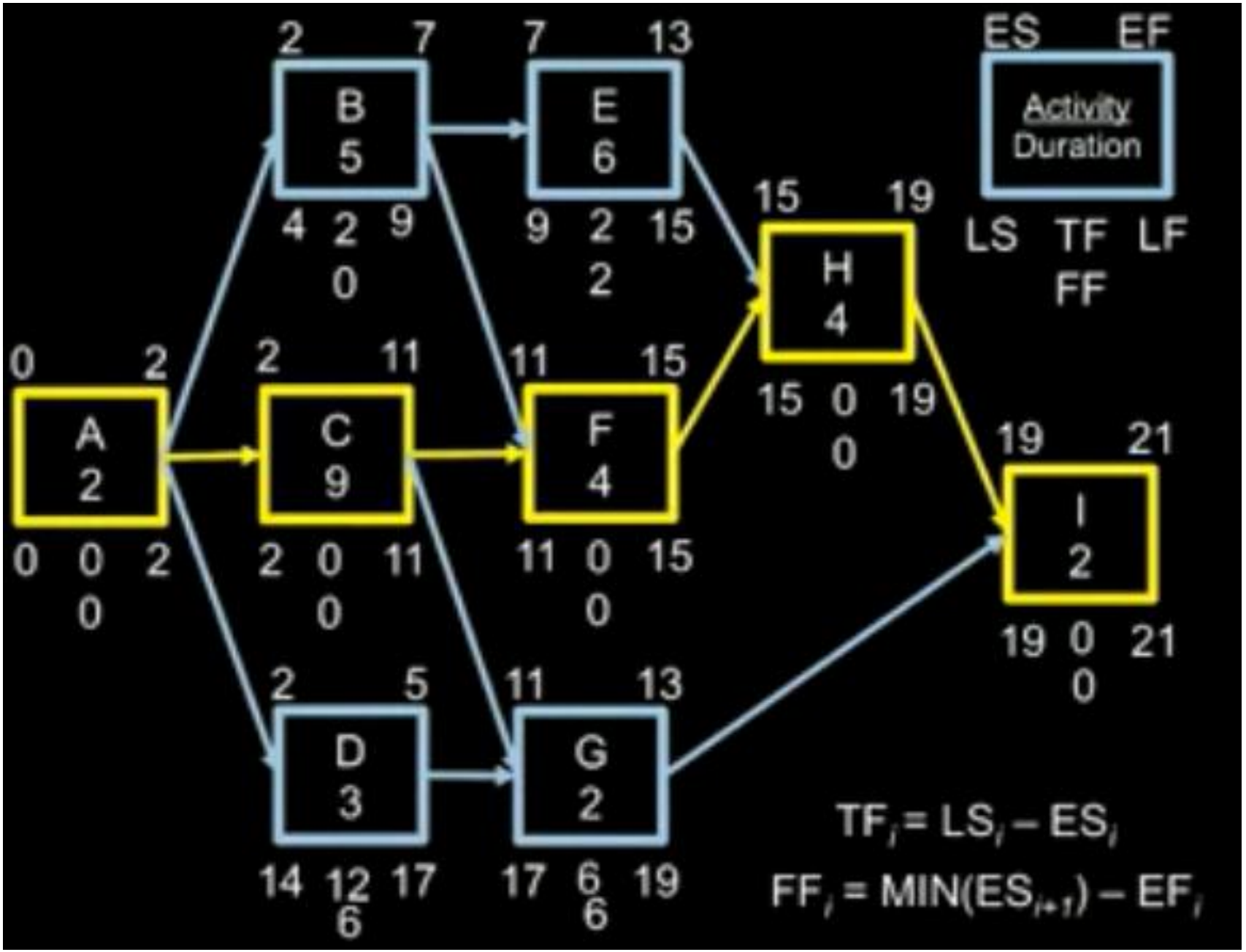

TF= 1
0 B 2
1 2 3
TF=0
0 A 3
0 3 3
TF=0
3 C 3
3 0 3
TF=4
3 F 8
7 5 12
TF=4
8 H 14
12 6 18
TF=0
3 E 10
3 7 10
TF=0
10 G 18
10 8 18
TF=0
18 I 19
18 1 19
TF=3
3 D 7
6 4 10
TF_i = LS_i - ES_i or LF_i - EF_i



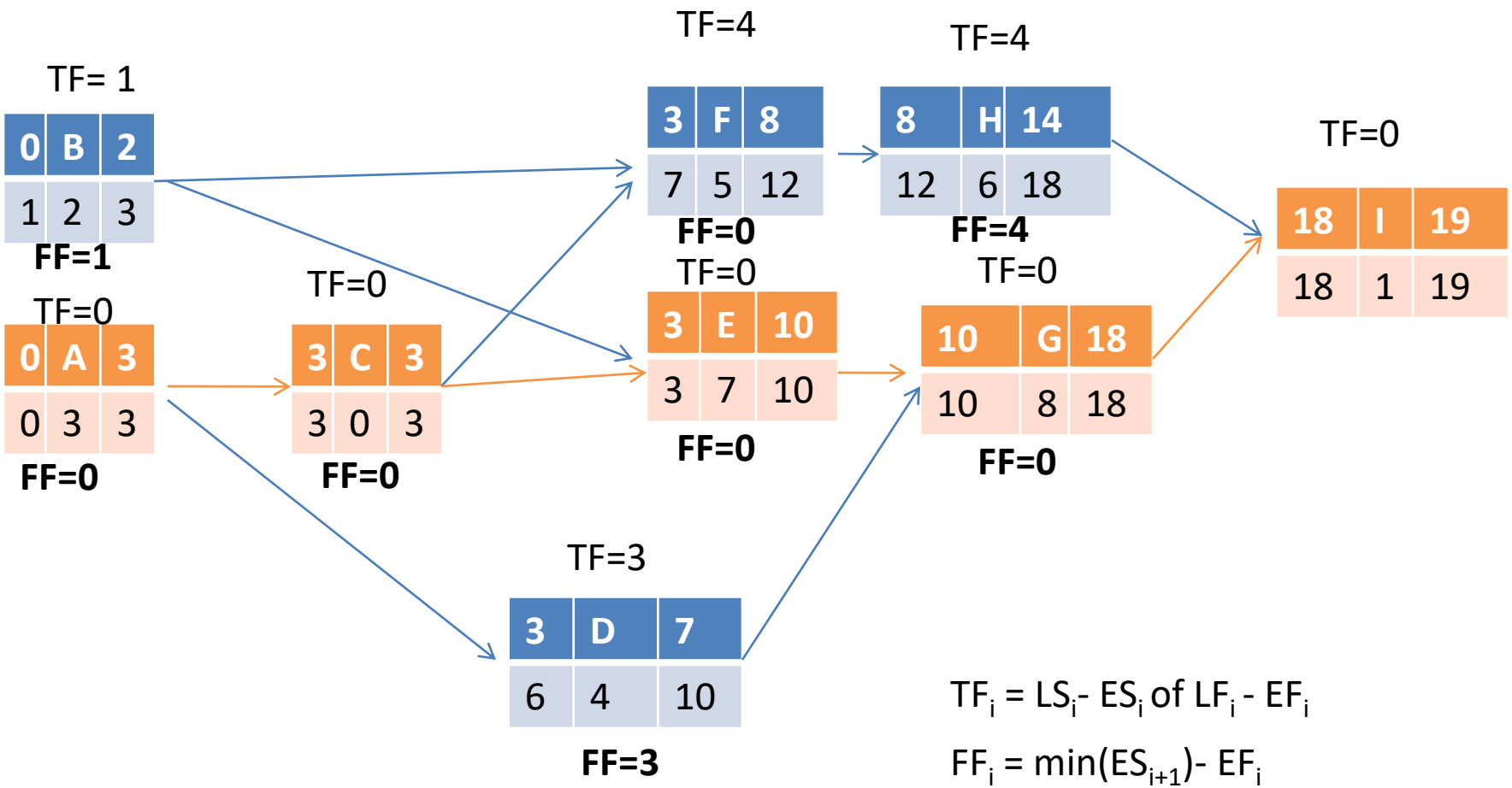
$TF_i = LS_i - ES_i$ of $LF_i - EF_i$

$FF_i = \min(ES_{i+1}) - EF_i$

$TF \geq FF$



https://www.coursera.org/lecture/construction-scheduling/introduction-to-the-interfering-float-N2phU



$TF_i = LS_i - ES_i$ of $LF_i - EF_i$

$FF_i = \min(ES_{i+1}) - EF_i$

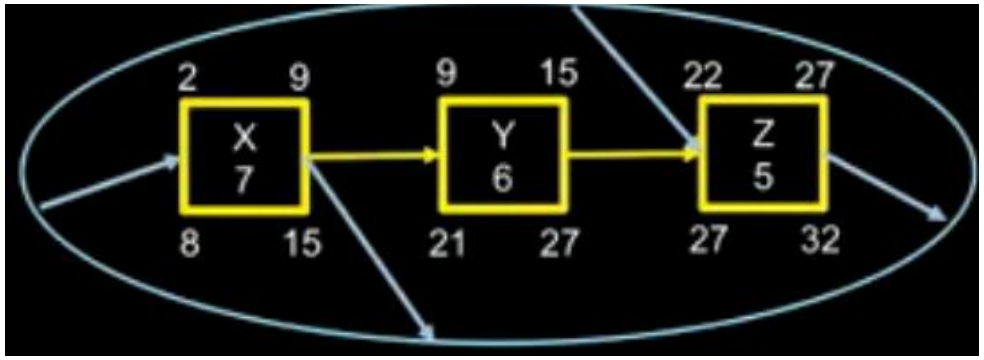
$TF \geq FF$

$TF_i = FF_i + Int.F_i$

Independent Float

- The maximum amount of time an activity can be delayed without delaying the early start of the succeeding activities and without being affected by the available delay of preceding activities...

Independent Folat:
$Ind.F_i = min(ES_{i+1}) – max(LF_{i-1}) - Duration_i$



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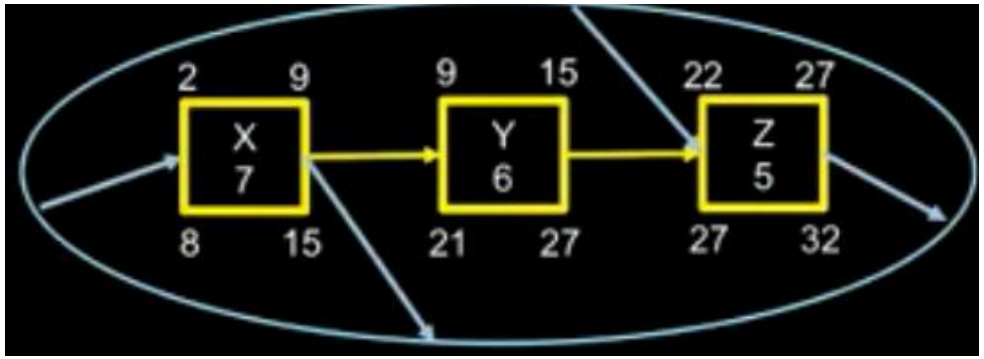
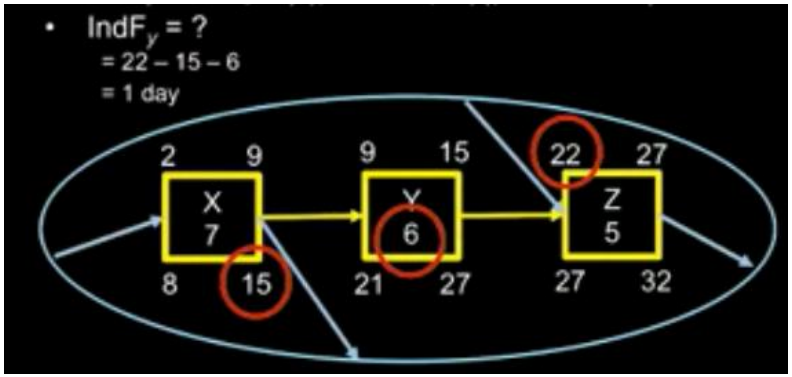
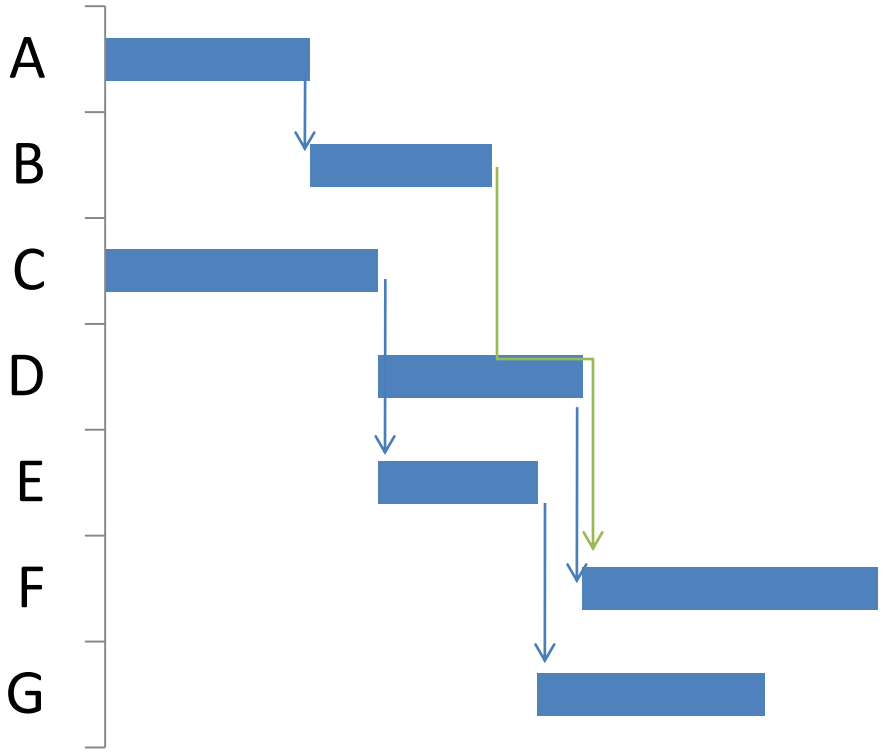




Draw a linked bar chart for a project with following details.

Activities	Duration	Immediate Successor
A	9	B
B	8	F
C	12	D,E
D	9	F
E	7	G
F	13	-
G	10	-



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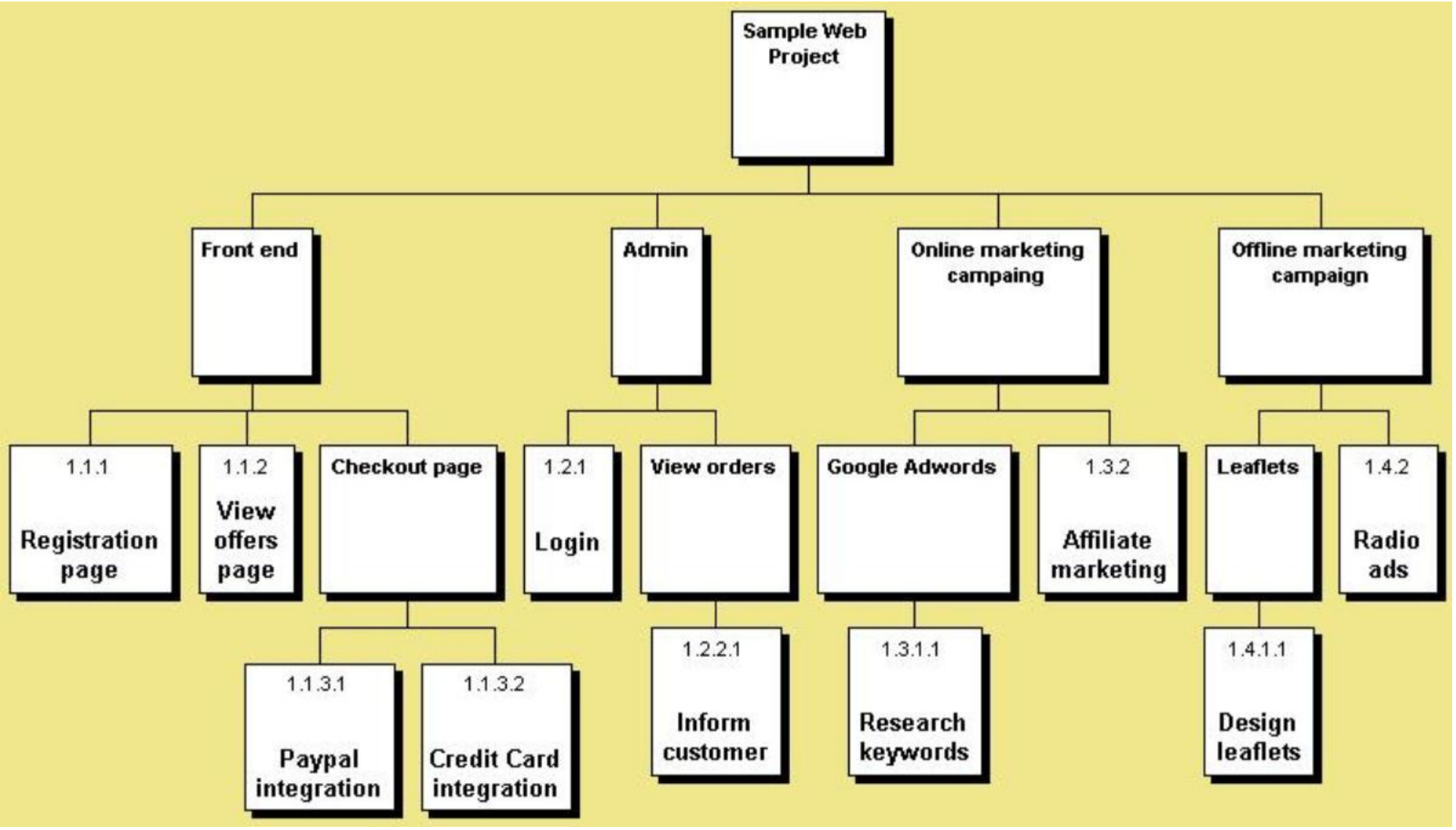
Sample Web Project
Front end
Admin
Online marketing campaing
Offline marketing campaign
1.1.1
Registration page
1.1.2
View offers page
Checkout page
1.2.1
Login
View orders
Google Adwords
1.3.2
Affiliate marketing
Leaflets
1.4.2
Radio ads
1.1.3.1
Paypal integration
1.1.3.2
Credit Card integration
1.2.2.1
Inform customer
1.3.1.1
Research keywords
1.4.1.1
Design leaflets