ISYS90050 IT Project and Change Management

Tutorial 5

Activity 1 Task 1: Identify travel origin

- Pick a Melbourne location
- Describe how you might travel to University of Melbourne from this location?

Activity 1 Task 2: Travel from source to destination

- How might you travel?

Activity 1 Task 3: Individual estimate of travel time

- Estimated time and assumptions

Activity 1 Task 4: Scenarios

- Scenario 1 – You are travelling to the University to attend a tutorial (or) a lecture.
- Scenario 2 – You are travelling to the University to attend one of your final exams in the semester.

Activity 1 Task 5: Compare and discuss

- Any difference? Why?
- What additional situations considered?
- Factors not in your control?

Activity 1 Task 6: Test of estimate

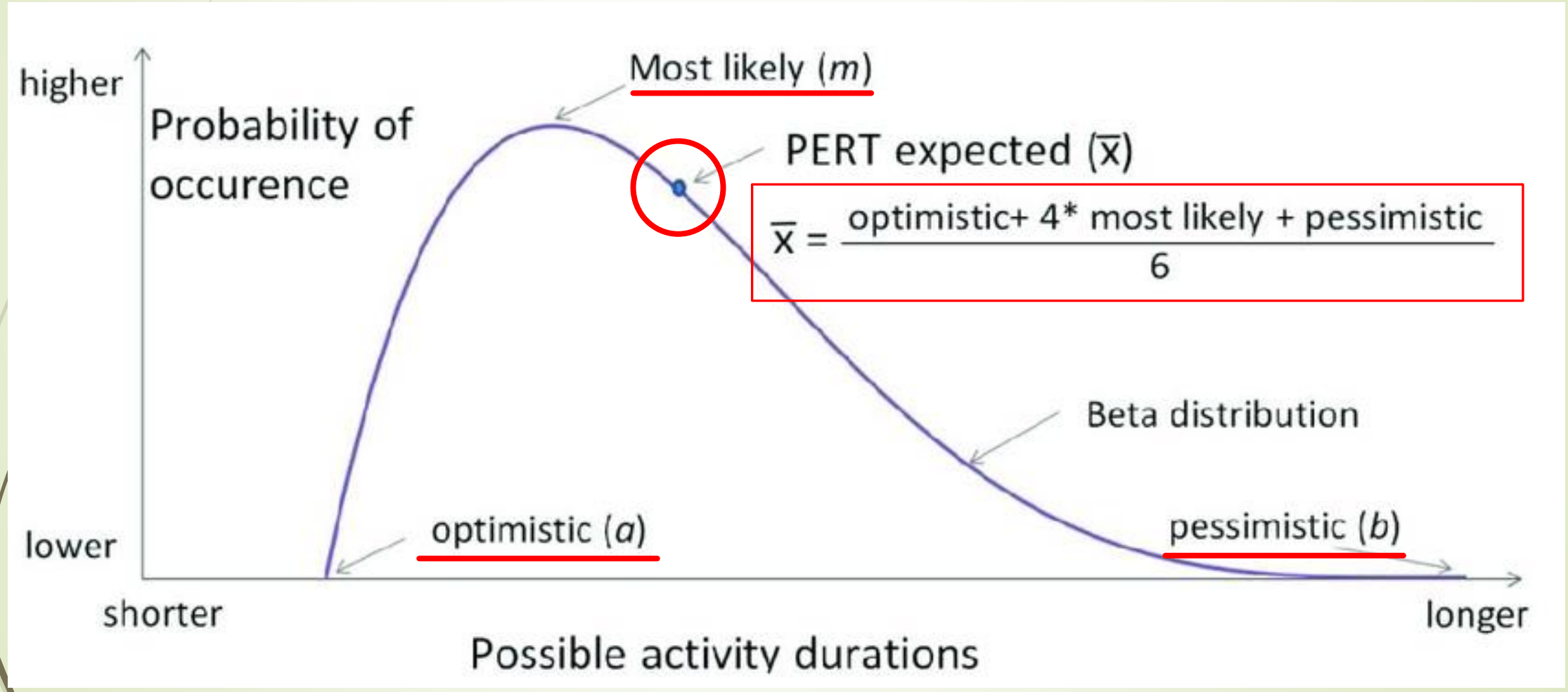
- How to test? How valid is your test?
- Can the estimate be improved?

Activity 2 Task 1: Expected Duration of Tasks

Task ID	Optimisitic Time (a)	Pessimisitic Time (b)	Most likely Time (m)
A	3	6	4
B	1	3	2
C	4	7	6
D	2	5	3
E	3	9	6
F	3	8	4

Expected time = (a + 4m + b) / 6

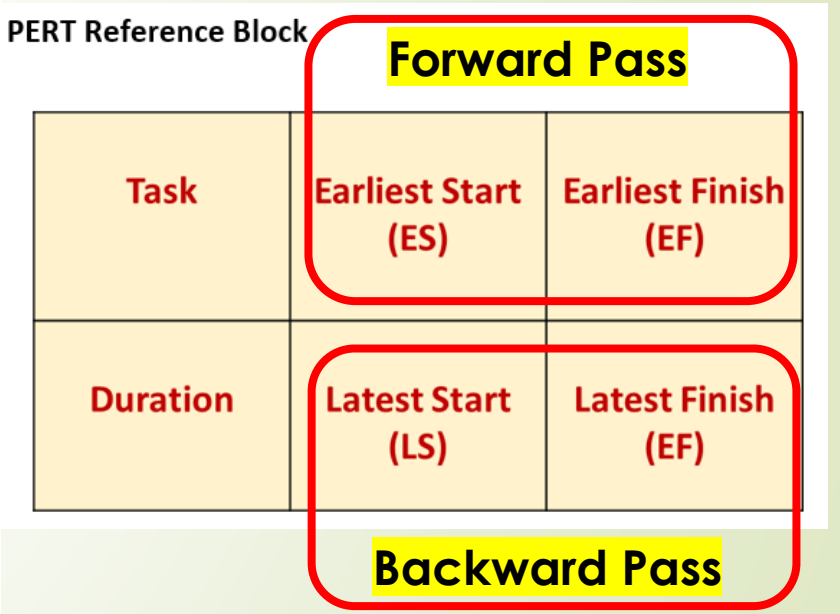
Expected time = (a + 4m + b) / 6



Activity 2 Task 2: PERT

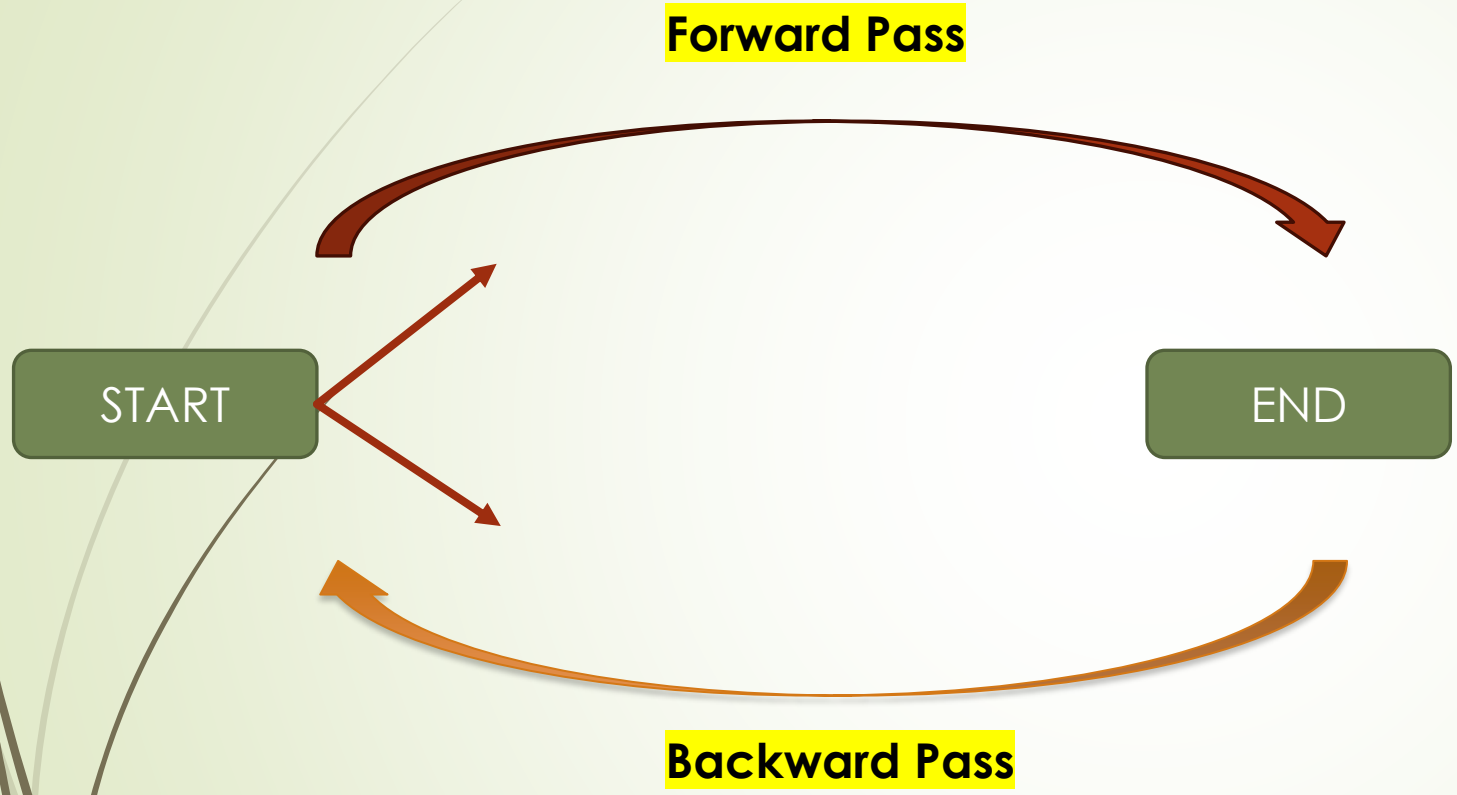
Task ID	Description	Duration	Dependent on:
A	Prototype user interface	10 days	-
B	Design file structures	2 days	A
C	Define interfaces	3 days	B
D	Define/test compression algorithm	5 days	B
E	Define coding standards	5 days	-
F	Devise test plan	5 days	B
G	Prepare test cases and data	5 days	F
H	Review phase deliverables	2 days	C, E, G, D

START



END

Activity 2 Task 2: PERT



EF = ES + time

LS = LF - time

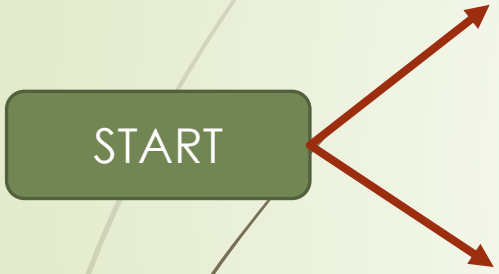
PERT Reference Block

	Forward Pass	
Task	Earliest Start (ES)	Earliest Finish (EF)
Duration	Latest Start (LS)	Latest Finish (EF)
	Backward Pass	

How to find the critical path?

- The activities that have a path from start to finish with **slack =0** gives you the critical path.

Activity 2 Task 2: Slack



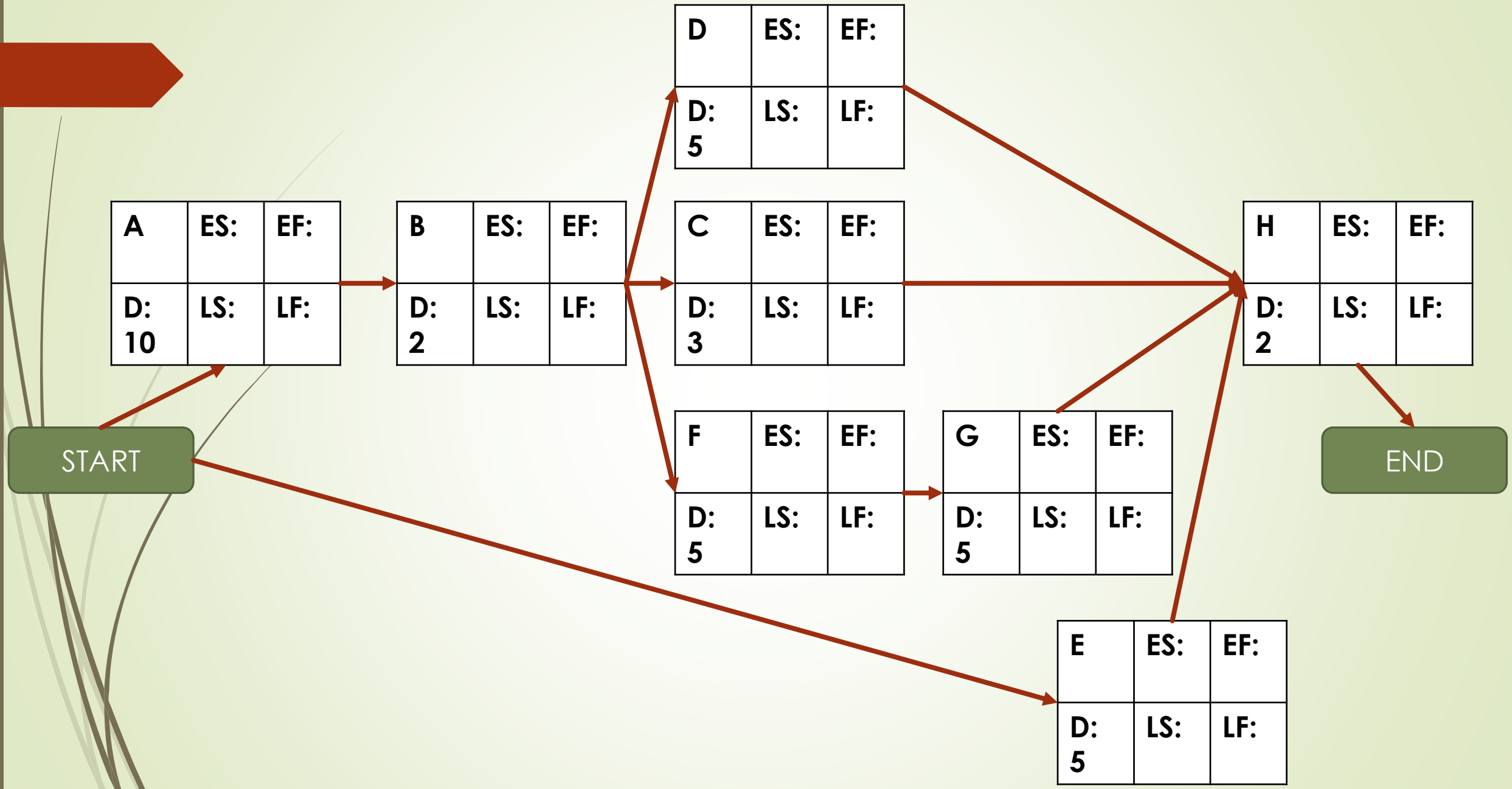
END

PERT Reference Block

Task	Earliest Start (ES)	Earliest Finish (EF)
Duration	Latest Start (LS)	Latest Finish (EF)

Slack

Slack or float = LS – ES (or) LF – EF


A
ES:
EF:
D: 10
LS:
LF:
B
ES:
EF:
D: 2
LS:
LF:
D
ES:
EF:
D: 5
LS:
LF:
C
ES:
EF:
D: 3
LS:
LF:
F
ES:
EF:
D: 5
LS:
LF:
G
ES:
EF:
D: 5
LS:
LF:
H
ES:
EF:
D: 2
LS:
LF:
E
ES:
EF:
D: 5
LS:
LF:
START
END

Activity 2 Task 3: Critical Path Change due to Task Delay

- How will the critical path of the project get affected if Task C gets delayed by 3 days?
- Slack of Task C?

Activity 2 Task 4: Critical Path Change due to Task Delay

- How will the critical path of the project get affected if Task C gets delayed by 8 days?
- Slack of Task C?

Tutorial Quiz!

- You have 5 mins to complete the quiz