

# Critical Path Method In Project Schedules

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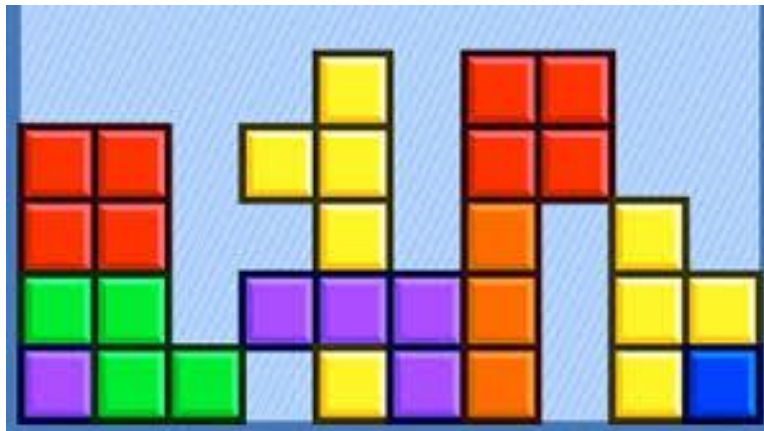
CECS 445

Lecture 7: February 18<sup>th</sup>, 2021



# Steps For This Week...

- Calculate Effort for Each Requirement
- Build Schedule (use Project Tables and/or Macro Schedules on the way)
- Start Coding & Be Ready to Share with Your Customer in One Week



# What Requirements Should I Start With?

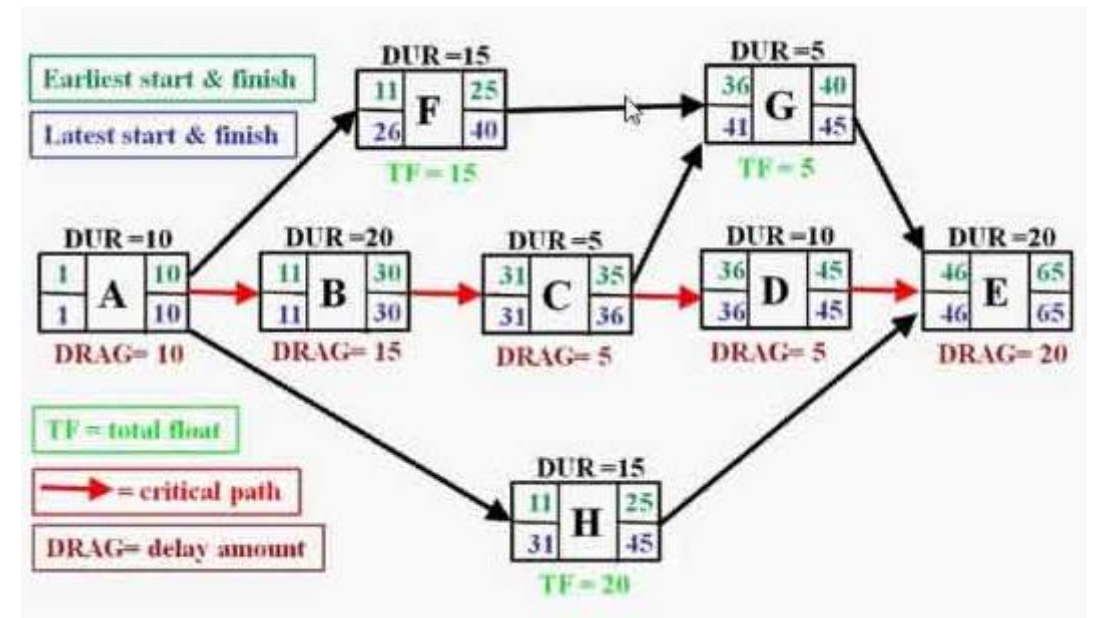
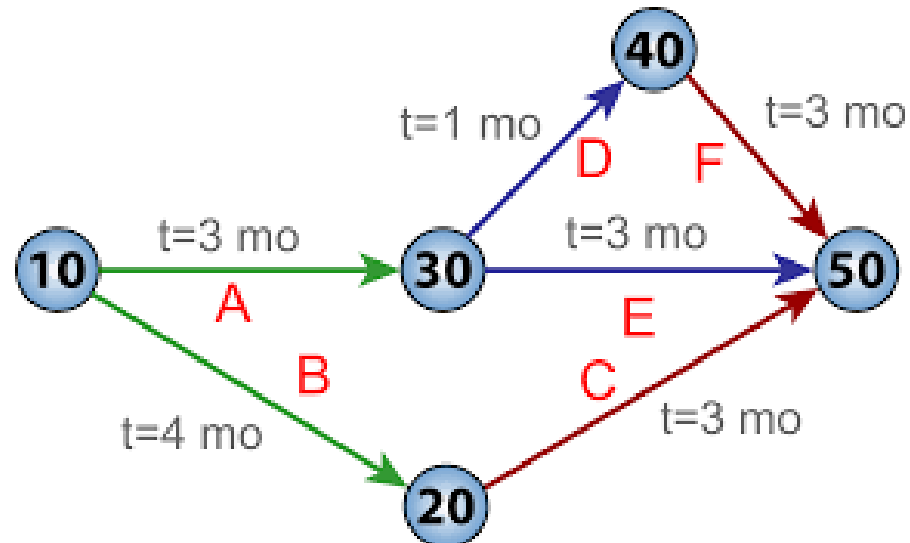
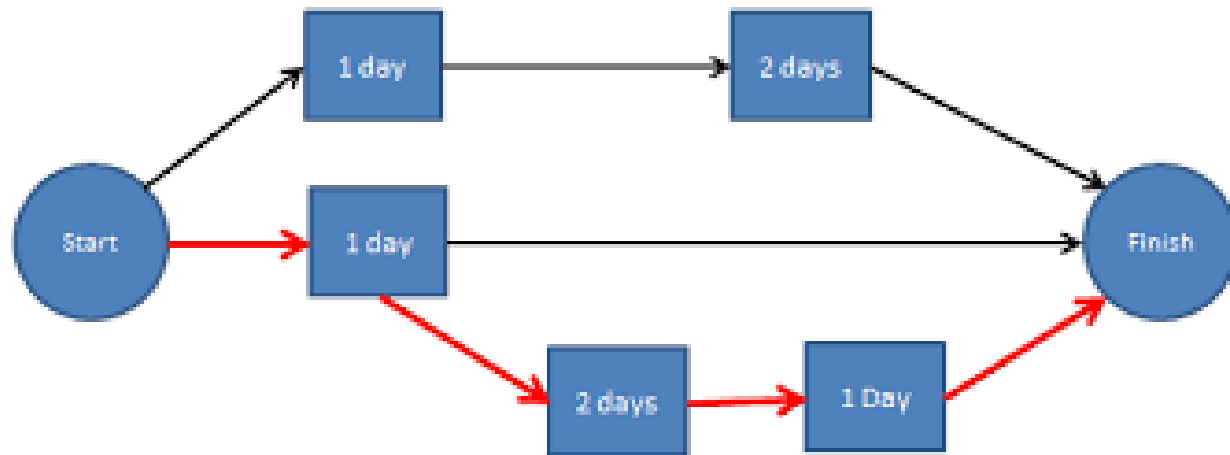
- Effort & Priority **HIGH**

- Effort =  $\frac{L^3}{P^3t^4}$

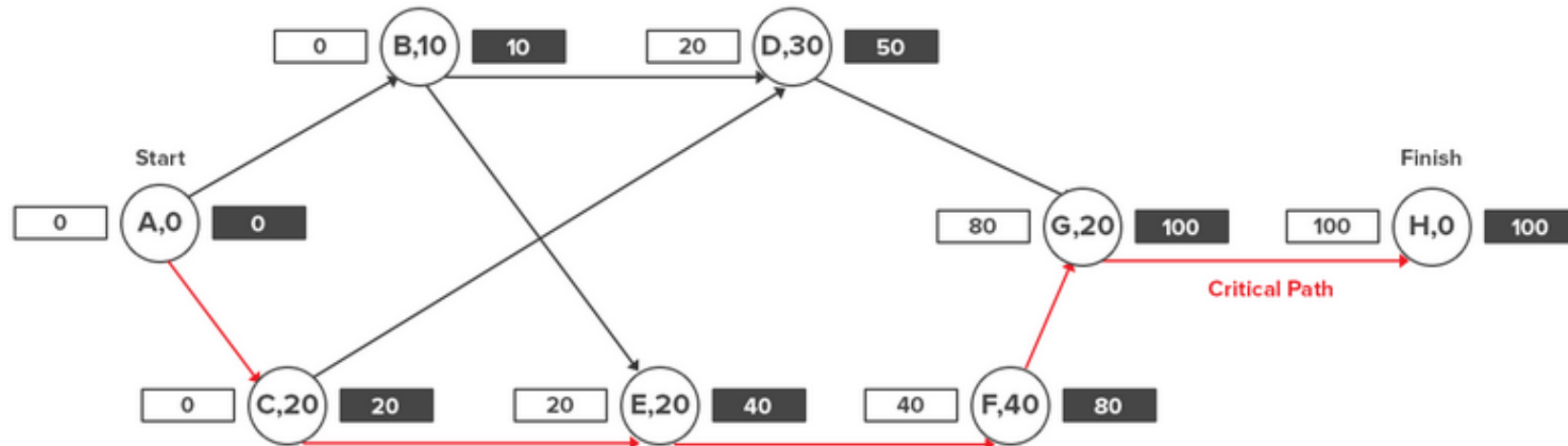
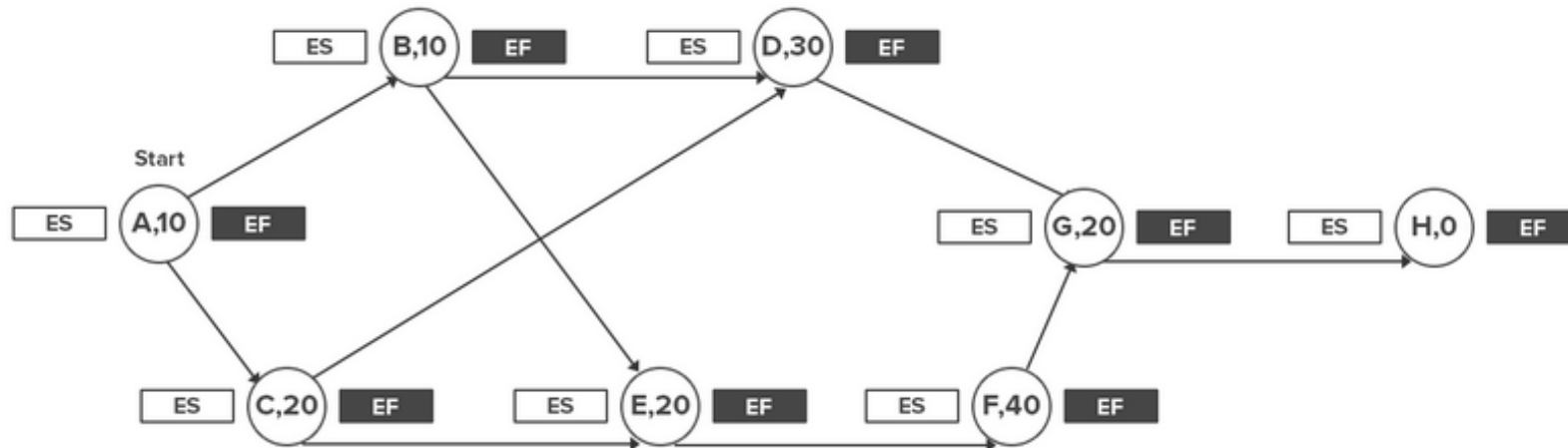
- Priority = ?

<p>Effort <b>LOW</b> Dependencies <b>HIGH</b></p> <p><i>Easy First Modules</i> <i>"Quick Wins"</i></p>	<p>Effort <b>HIGH</b> Dependencies <b>HIGH</b></p> <p><i>Critical Path Modules</i> <i>"Must Begin Now"</i></p>
<p>Effort <b>LOW</b> Dependencies <b>LOW</b></p> <p><i>Easy Last Modules</i> <i>"Do I Even Need This?"</i></p>	<p>Effort <b>HIGH</b> Dependencies <b>LOW</b></p> <p><i>Parallel Path Modules</i> <i>"Must Begin But Isolated"</i></p>

# Critical Path Method (CPM)

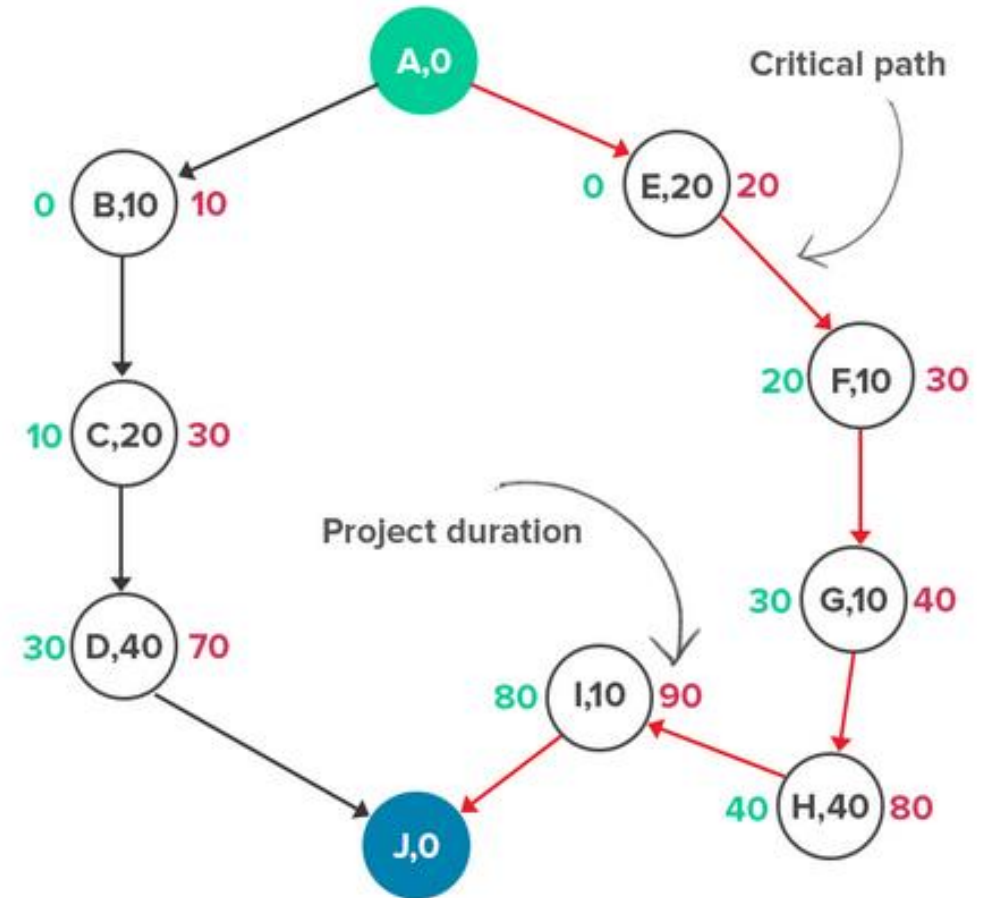
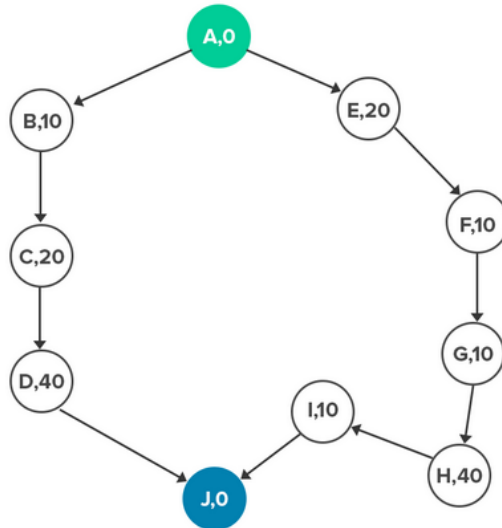


# Critical Path Method (CPM)



# CPM Steps

Task ID	Task Description	Task Predecessors	Task Duration (hours)
A	Project start		0
B	Buy materials for A	A	10
C	Buy materials for B	A	20
D	Build A	B, C	30
E	Build B	B, C	20
F	Polish and finish B	E	40
G	Join A and B	D, F	20
H	Project finish	G	0



# Gantt Chart Examples

