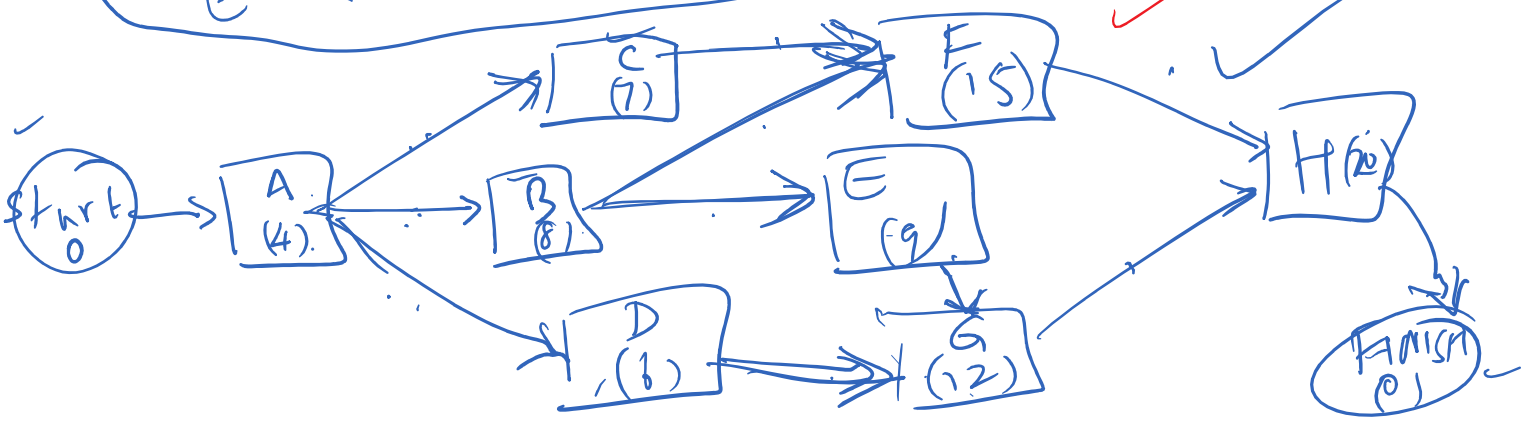
Thursday, April 9, 2020 5:12 PM

(4) A: Prep/Paperwork
(8) B: Transport m/c
(7) C: Hire Repair team
(6) D: Hire Operators

E: Install machine (9)
F: Train repair team (15)
G: Train Operators (12)
H: Testing (20)

A < B, C, D
B < E, F
C < F
D < G
E < G
F, G < H

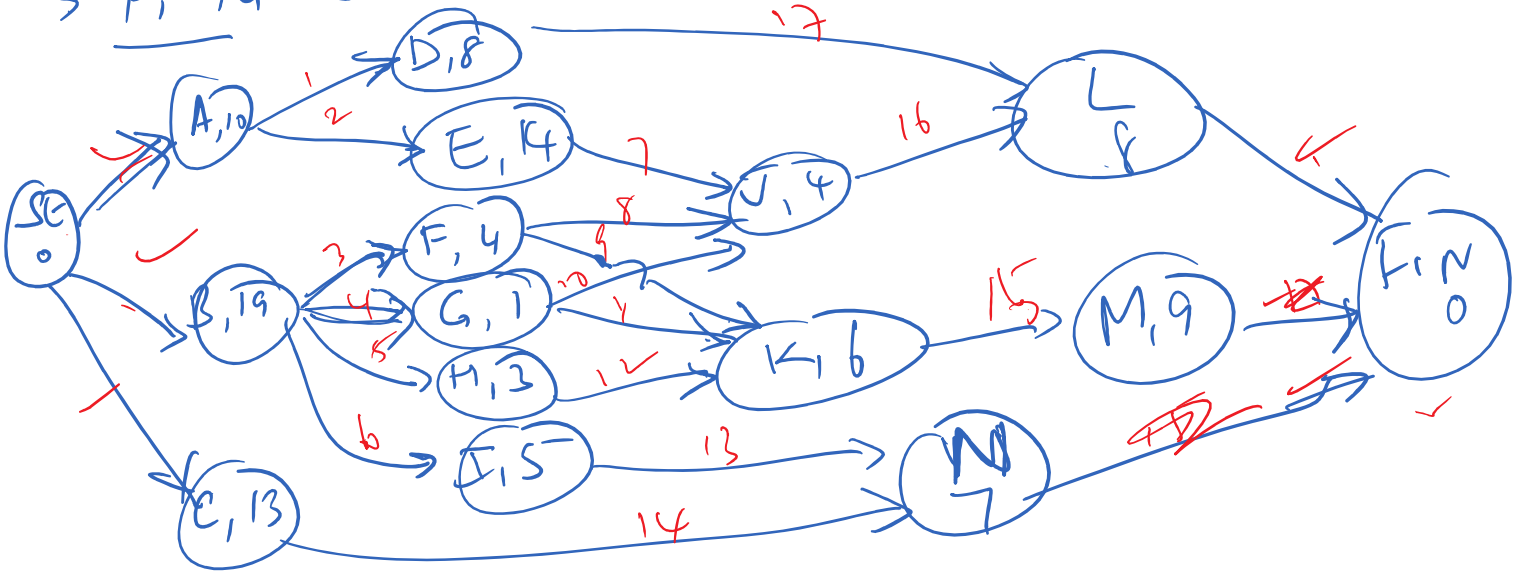
1. All
2. No extra



2 A < D, E ✓ 3 F, G, H < K ✓ 1 K < M ✓ 17

4 B < F, G, H, I ✓ 2 D, J < L ✓ 2 C, I < N ✓

3 F, E, G < J ✓



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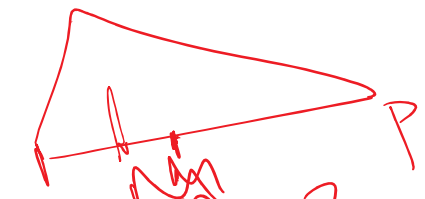
CPM : D_j ✓

PERT D_j is random var

PERT



Use $E[D_j]$ ≈ SAME CALCULATIONS

P_j = ? most

M_j = most likely

$E(D_j) = \frac{O_j + P_j + 4M_j}{6}$

$SD(D_j) = \frac{P_j - O_j}{6}$

Proj Dur CPM (53)

$E(\text{Proj Dur})$ PERT

R.V. $E(\text{Proj Dur}) = E[\text{Dur of CA}_1] + E[\text{Dur of CA}_2] + \dots E[\text{Dur of CA}_n]$

$\text{Var}(\text{Proj Dur}) = \text{Var}(\text{Dur CA}_1) + \text{Var}(\text{Dur CA}_2) + \dots \text{Var}(\text{Dur of CA}_n)$

If critical path has many activities (>30)

by C.L.T. Proj Dur NN μ, variance

95% CI for Proj Dur