CIE 485 – Construction Management
Homework # 4

Data for a simplified PERT network are given below:

1. Set up a table and calculate Early Event Times (TE), Late Event Times (TL), Activity Free Slack (AFS), and Activity Total Slack (ATS). (Assign TS = TE_t)

2. Determine the PERT "critical path(s)" and the mean and standard deviation for the project duration.

3. Use the PNET method to determine

    a. The probability of completing the project in less than 25 days.

    b. The probability that the project will take more than 27 days.

    c. The probability that event 35 will occur in less than 20 days.

i	j	ACT	Time Estimates (days)		
			a	M	b
5	10	A	1	3	5
5	15	B	2	5	6
10	20	C	4	6	7
10	25	E	8	10	12
15	25	d1	0	0	0
15	30	F	4	8	9
20	35	G	5	7	14
25	35	L	7	10	16
30	35	d2	0	0	0
30	40	M	6	9	12
35	45	N	1	3	7
40	45	P	3	5	7