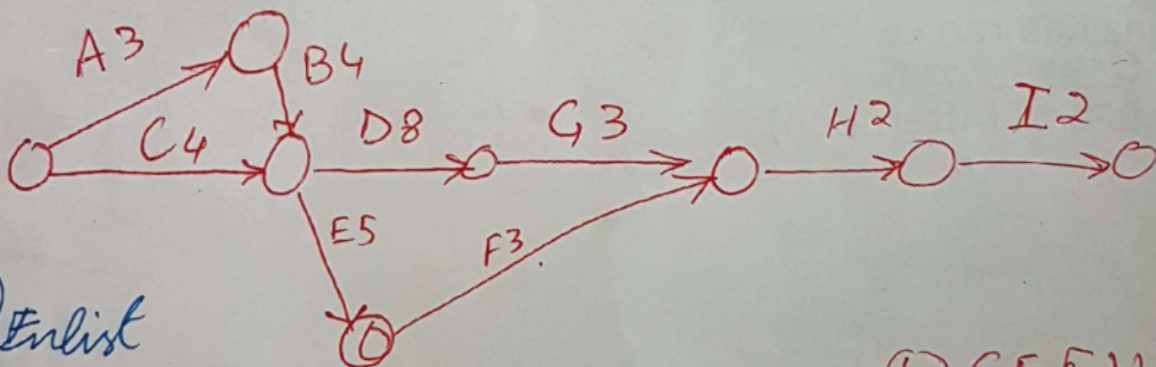


PERT

Optimistic time Crashing

Activity	Predecessor	Duration	Crash Time	Cost/week
A	None	3	1	800
B	A	4	2	500
C	None	4	2	400
D	B, C	8	6	1000
E	B, C	5	5	1000
F	E	3	3	800
G	D	3	3	800
H	G, F	2	2	400
I	H	2	1	600



① Enlist

All possible paths

$$④ CEFHI = 16$$

$$① ABDGHI = 22 \quad ② CDGHI = 19 \quad ③ ABEFHI = 19$$

②

Critical Path

$$ABDGHI = 22$$

③

* possible activities that can be crashed.

A B C D I

2 2 2 2 1

* Critical Path: $ABDGH I = 22$

* Possible Activities that can be crashed: $ABCDI$
 $2222X$
 $XX1X$

Qualifying Activities	Selected Activities	$ABDGH I$ (22)	(19) $CDGH I$	$ABEFH I$ (19)	$CEFH I$ (16)	Cost
$ABDI$	B	(21)	19	18	16	500
$ABDI$	B	(20)	19	17	16	500
ADI	I	(19)	18	16	15	600
AD	A	(18)	(18)	15	15	800
AD	D	(17)	(17)	15	15	1000
AD	D	(16)	(16)	15	15	1000
AC	A	15	(16)	14	15	800
C	C	(15)	(15)	14	14	400

* If C is crashed further then First Path will remain critical (15).

∴ We can not further crash "C".

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