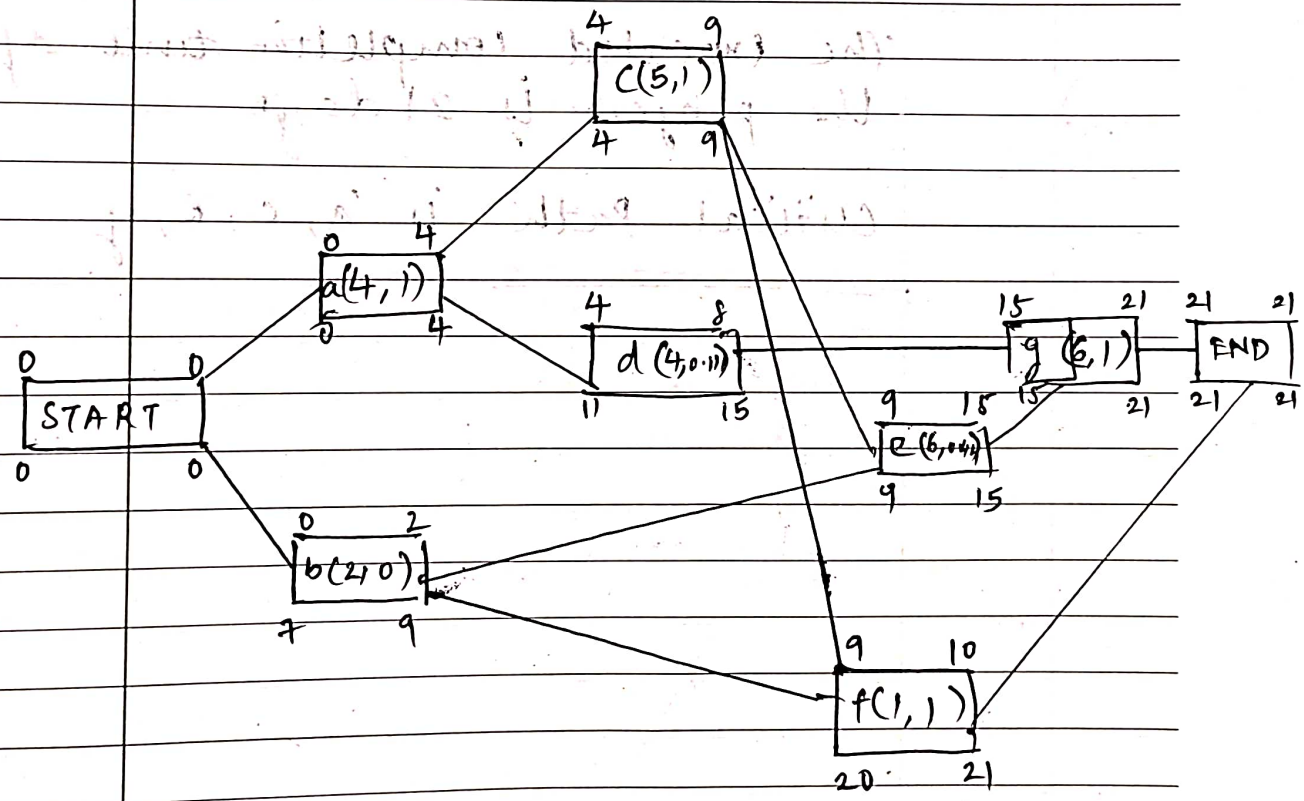
for Marks | No.

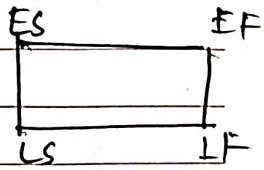
Step 2: Expected Time $= \frac{a+4m+b}{6}$ Var $(\sigma^2) = \left(\frac{b-a}{6}\right)^2$

Activity	Expected Time	Variance (σ^2)	SD. ($\sqrt{\text{Variance}}$)
a	4	1	1
b	2	0	0
c	5	1	1
d	4	0.111	0.33
e	6	0.444	0.666
f	1	1	1
g	6	1	1

Step 3: AON Diagram



Critical path = a, c, e, g.



Step 4:-

Finding Slack.

Slack = LS − ES

Expected time

Activity	Early start (ES)	Late start (LS)	Slack
a	0	0	0
b	0	7	7
c	4	4	0
d	4	11	7
e	9	9	0
f	9	20	11
g	15	15	0

The expected completion time of the project is 21 days

Critical path is a, c, e, g