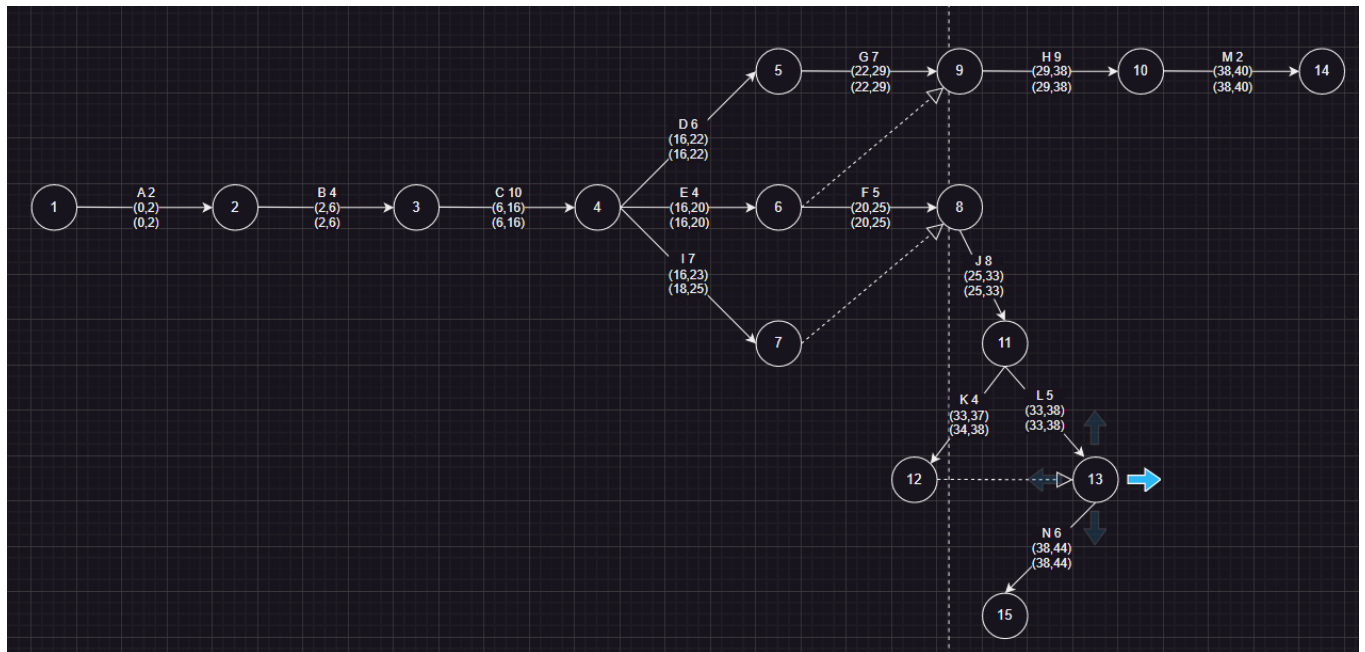**BLG368E**

HW5

MUSTAFA CAN ÇALIŞKAN

150200097

a)

b)

The minimum completion time is: 44.

c)

The variance of the project is the summation of all critical path activity variances: 9

A	B	C	E	F	J	L	N
0.111	1	4	0.444	1	1	1	0.444

d)

Critical path: A, B, C, E, F, J, L, N

e)

E[X] = 44, Var[X] = 9, Standard deviation = 3.

Pr{X <= 35} = Pr{Z <= (35 − 44) / 3)} = Pr{Z <= -3}

$= \theta(-3)$

$= 1 - \theta(3)$

= 1 - 0.99865

= 0.00135

= 0.135%