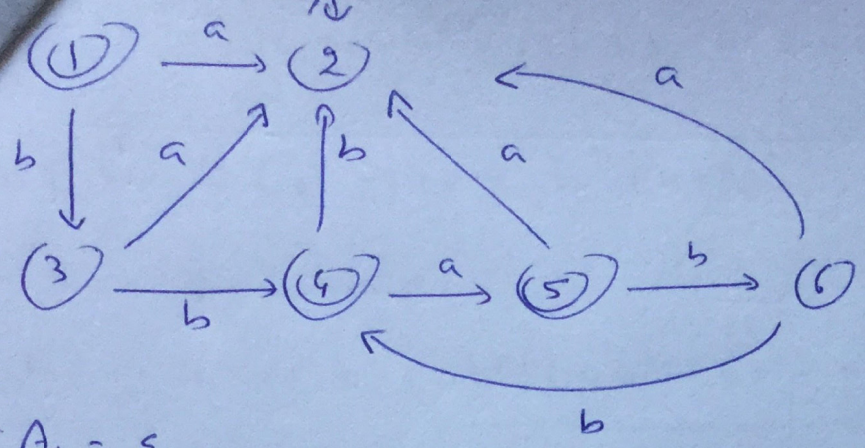

4

4

d) $\begin{cases} A_1 = \varepsilon \\ A_2 = A_1 a + A_2(a+b) + A_3 a + A_4 b + A_5 a + A_6 a \\ A_3 = A_1 b \\ A_4 = A_3 b + A_6 b \\ A_5 = A_4 a \\ A_6 = A_5 b \end{cases}$

4

$L = A_1 + A_4 + A_5.$

ona: $A_1 = \varepsilon$; $A_3 = b$; $\begin{cases} A_4 = b^2 + A_6 b \\ A_5 = b^2 a + A_6 b a \\ A_6 = A_6 bab + b^2 ab \end{cases}$

$A_6 = b^2 ab (bab)^*$

$A_5 = b^2 a + b^2 ab (bab)^* ba$

$= b^2 a + b(bab)^+ ba$

$= b(\varepsilon + (bab)^+) ba$

$= b(bab)^* ba.$

$A_4 = b^2 + b^2 ab (bab)^* b$

$= b^2 + b(bab)^+ b$

$= b(\varepsilon + (bab)^+) b$

$= b(bab)^* b$

$L = \varepsilon + b(bab)^* b + b(bab)^* ba$

$= \varepsilon + b(bab)^* b(\varepsilon + a)$

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