M1 : $a^i b^j c^k$ $i \geq 0, j > 0, k = i + j$

case 1 :

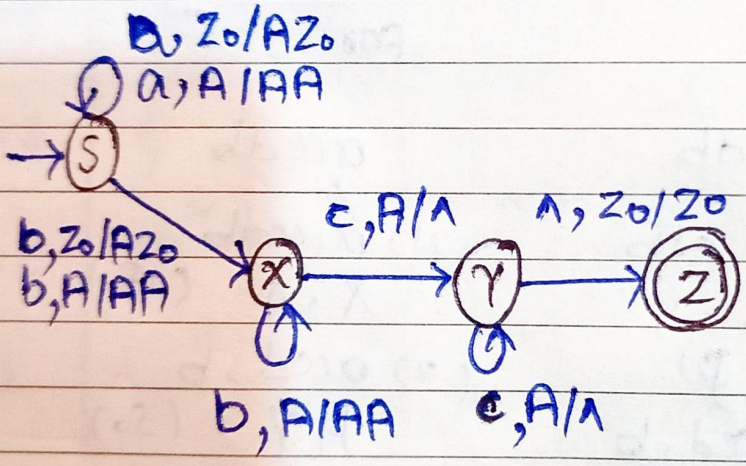
$i = 0$

$(b^j c^j)$ (same length of b's & c's

case 2 :

$i > 0$

$(a^i b^j c^{i+j})$



M2: $a^i b^j c^k$ $i > 0, k \geq 0$ $j = i + k$

case 1 :

$k = 0$

$(a^i b^i)$

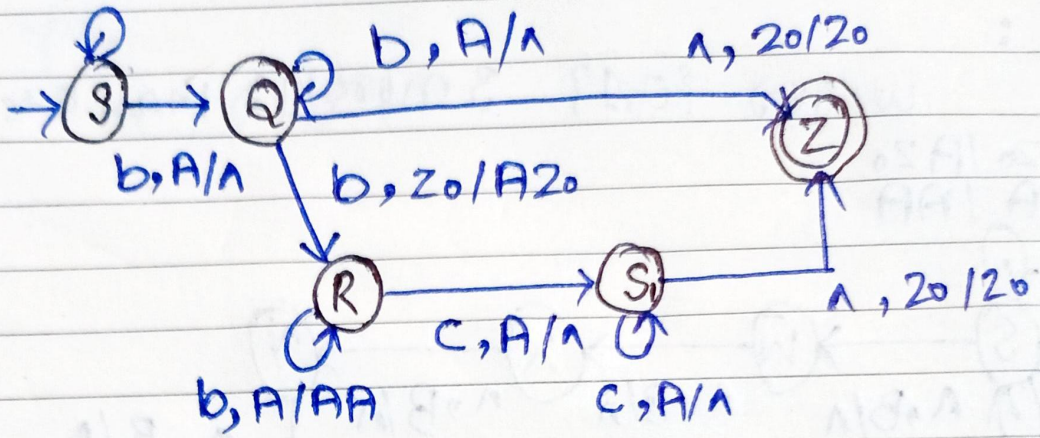
case 2 :

$k > 0$

~~$a^i b^j c^{i+j}$~~ $(a^i b^{i+k} c^k)$

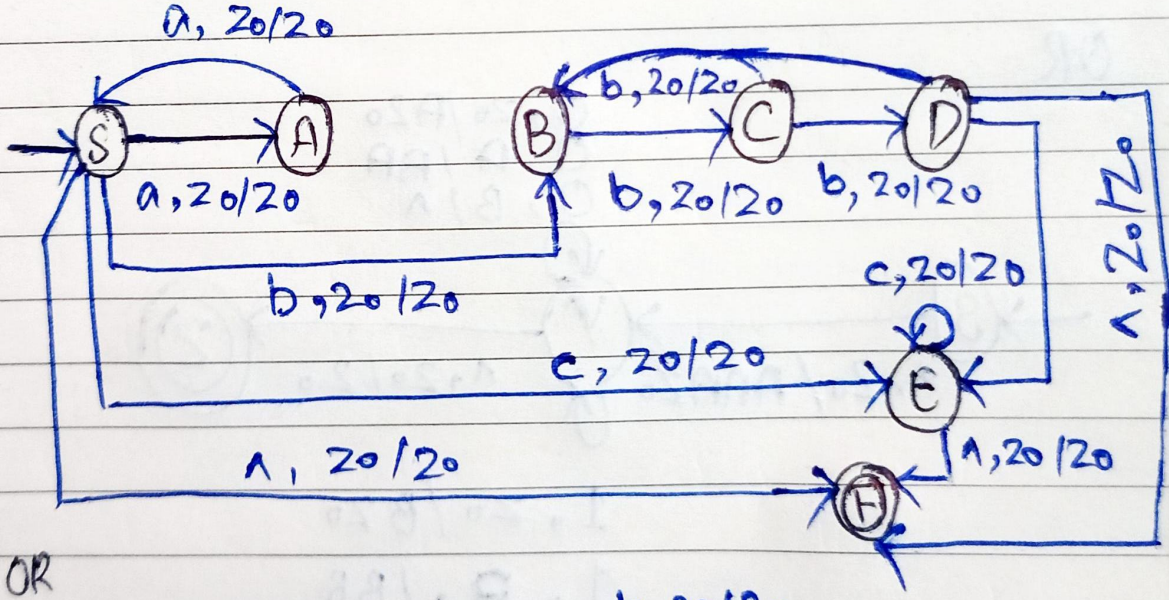
Date:

a, A/AA
a, Z0/AZ0

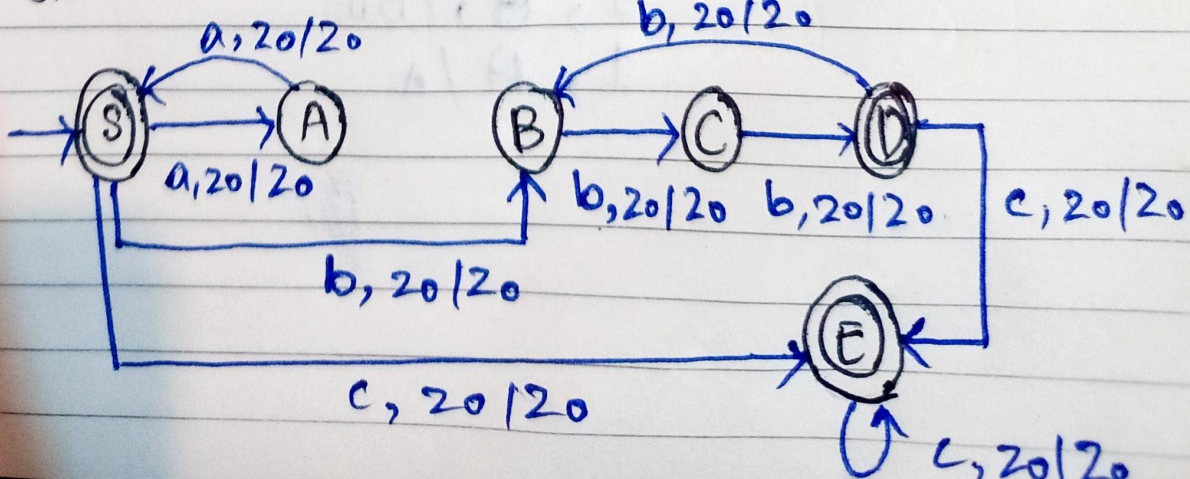


Y1: $a^{2i} b^{3j} c^{k} \mid i, j, k \geq 0$

cases (8-9)



OR



Y2:

w over {0,1} 3 more 1's than 0's