

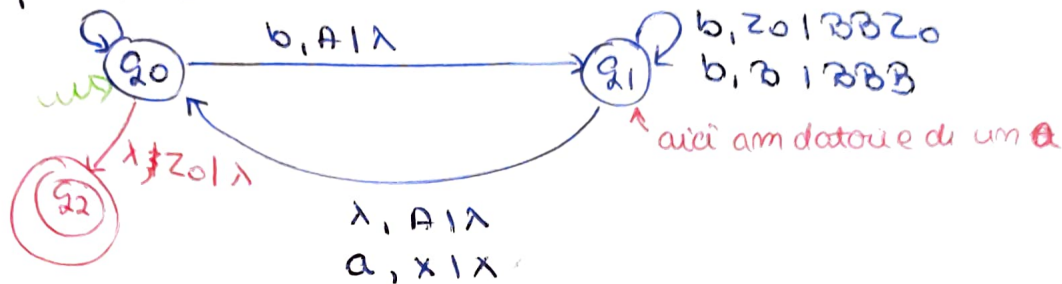
CONSTRUIRE PDA-WW

① $L = \{ \alpha \in \{a,b\}^* \mid \#a(\alpha) = \#b(\alpha) \}$

VARIANTA 1

a, B | λ
a, Z | A Z λ
a, A | A A
b, Z | B B Z λ
b, B | B B B

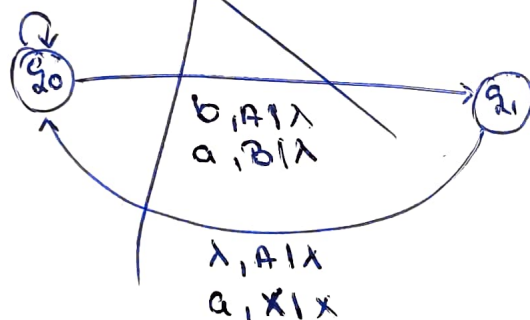
- cîndal citesc un b pun 2
- un b sterge 2 a



VARIANTA 2

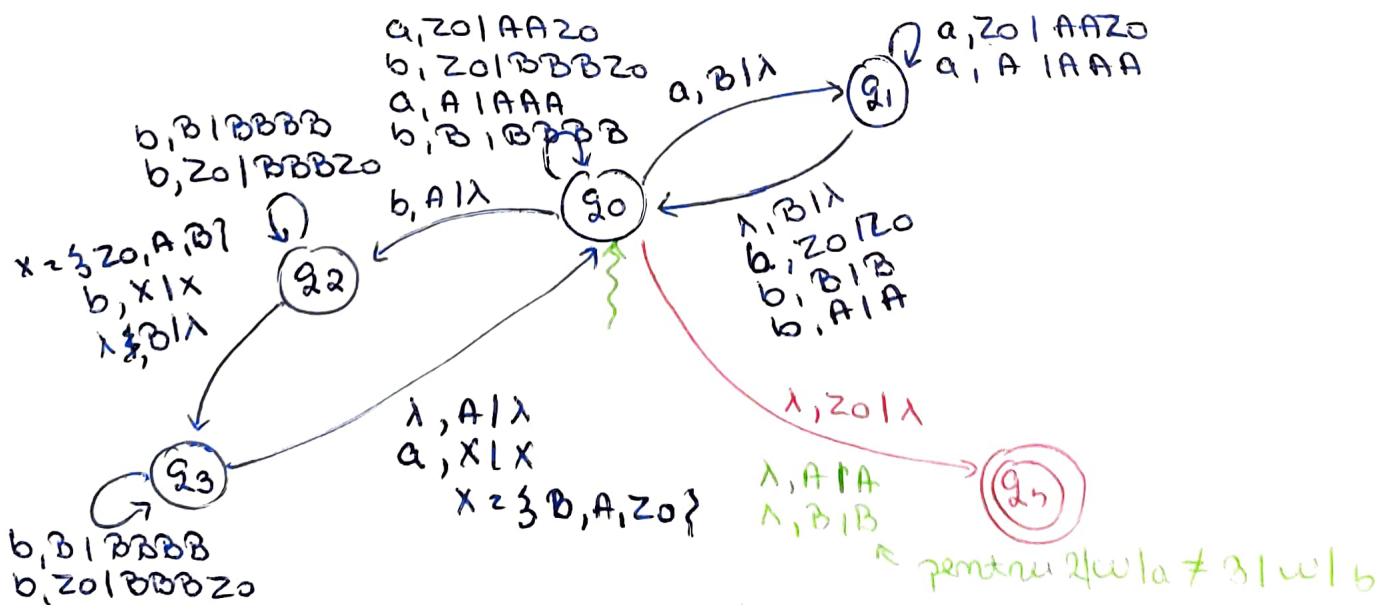
~~b, B | B B~~
~~b, Z | B B Z λ~~
~~a, Z | A Z λ~~
~~a, Z | A A~~

aaB : A A B
aba : A
baa : B
abbaaa : A



② $L = \{ w \in \{a,b\}^* \mid \#a(w) = 3 \cdot \#b(w) \}$

• pîn 2 a e data
• pîn 3 b e data
• un a sterge 2 b
• un b sterge 3 a



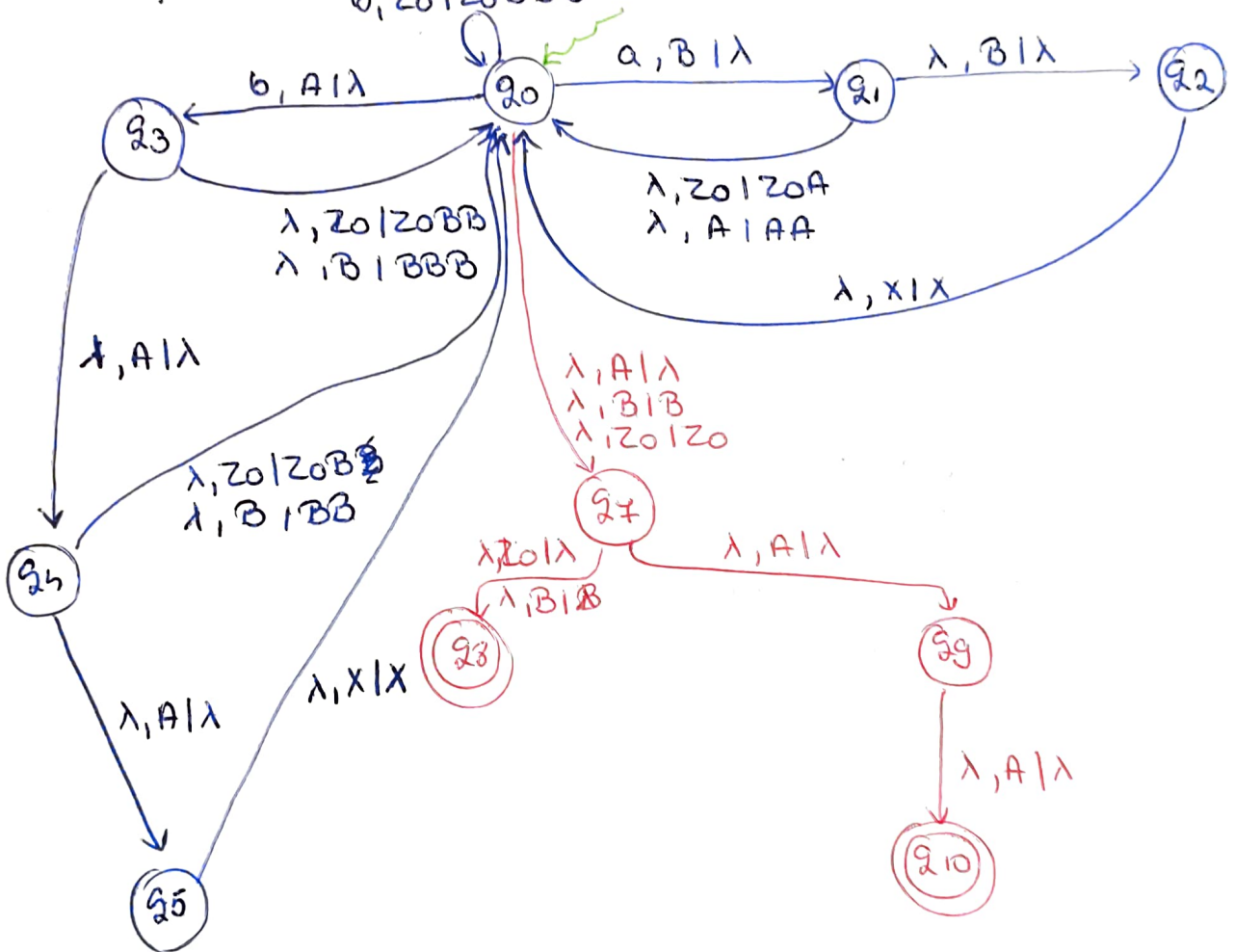
$L = \{ w \mid 2 \mid w/a \neq 3 \mid w/b + 2 \}$

a^2bab
 $\cancel{a^4b^4}$

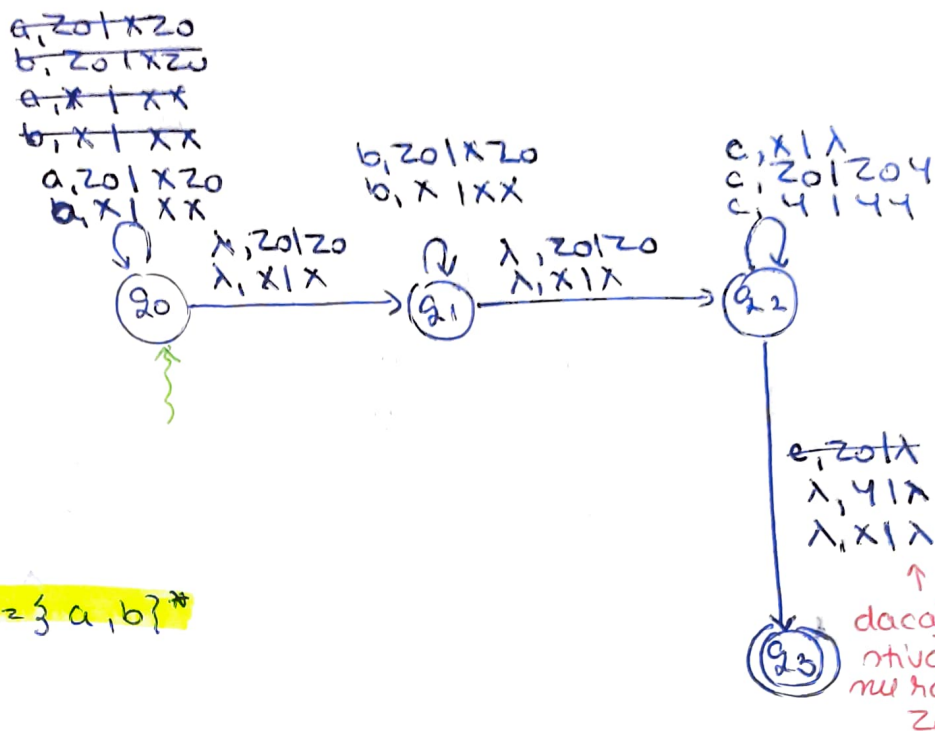
ab $aaaaab$
 $\cancel{a^4b}$ $\cancel{a^4b^4}$

$aaab$
 $\cancel{a^4b^4}$

$a, A \mid AAA$
 $b, B \mid BBB$
 $a, Z_0 \mid Z_0AA$
 $b, Z_0 \mid Z_0BBB$

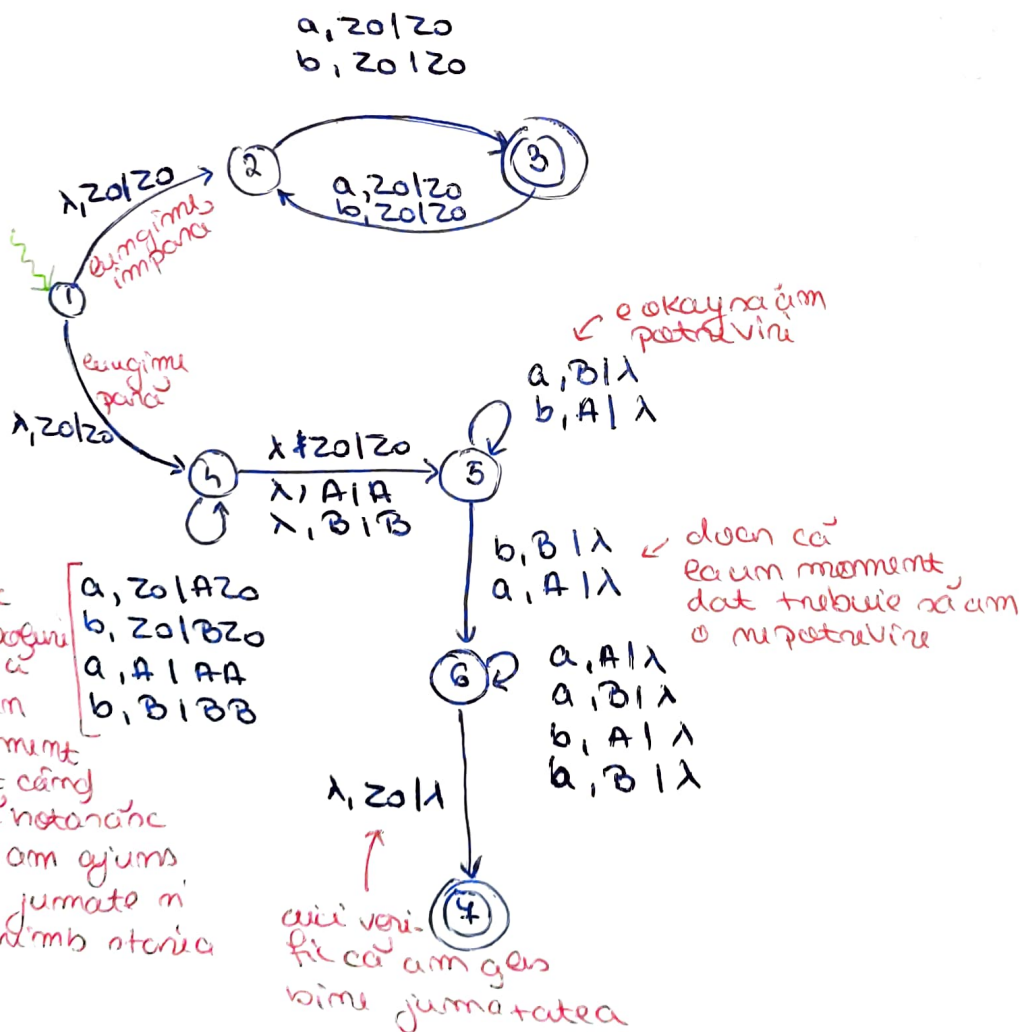


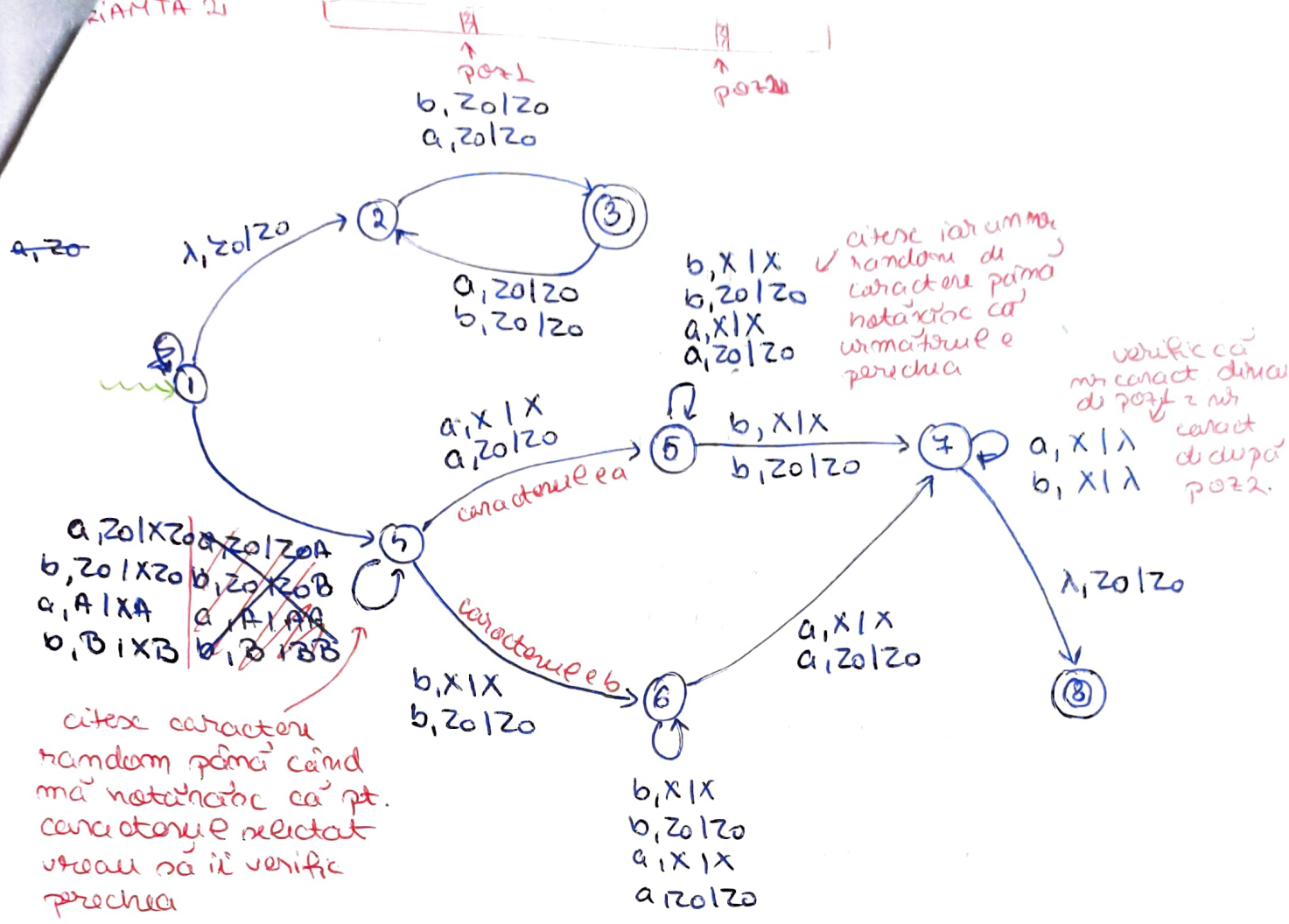
⑤ $L = \{ a^i b^j c^k \mid i+j+k = k \}$



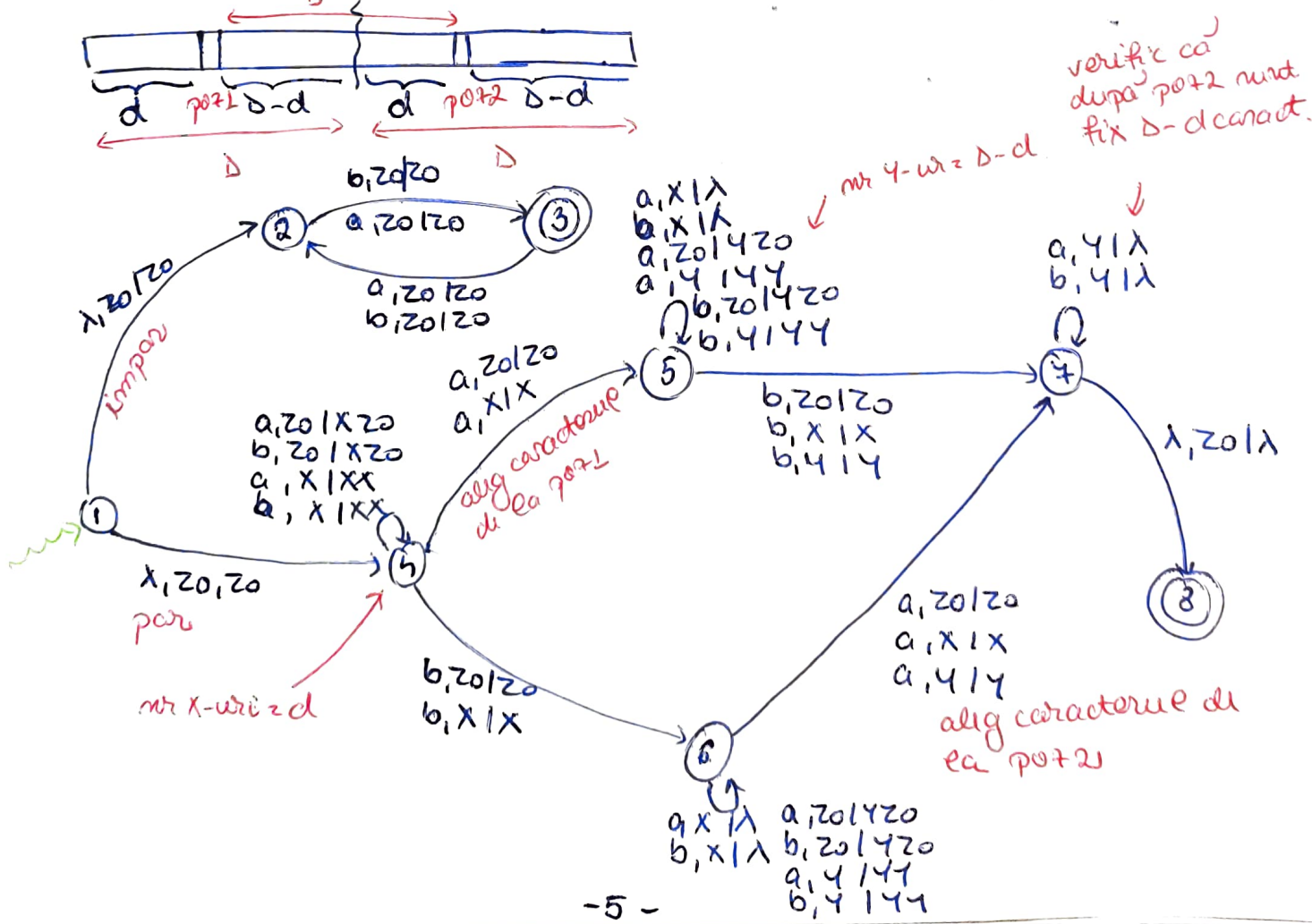
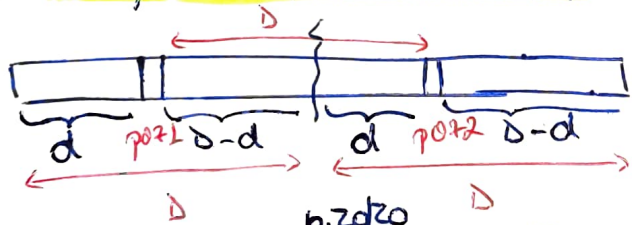
⑤ $L = \overline{www}, w = \{a, b\}^*$

VARIANTA 1



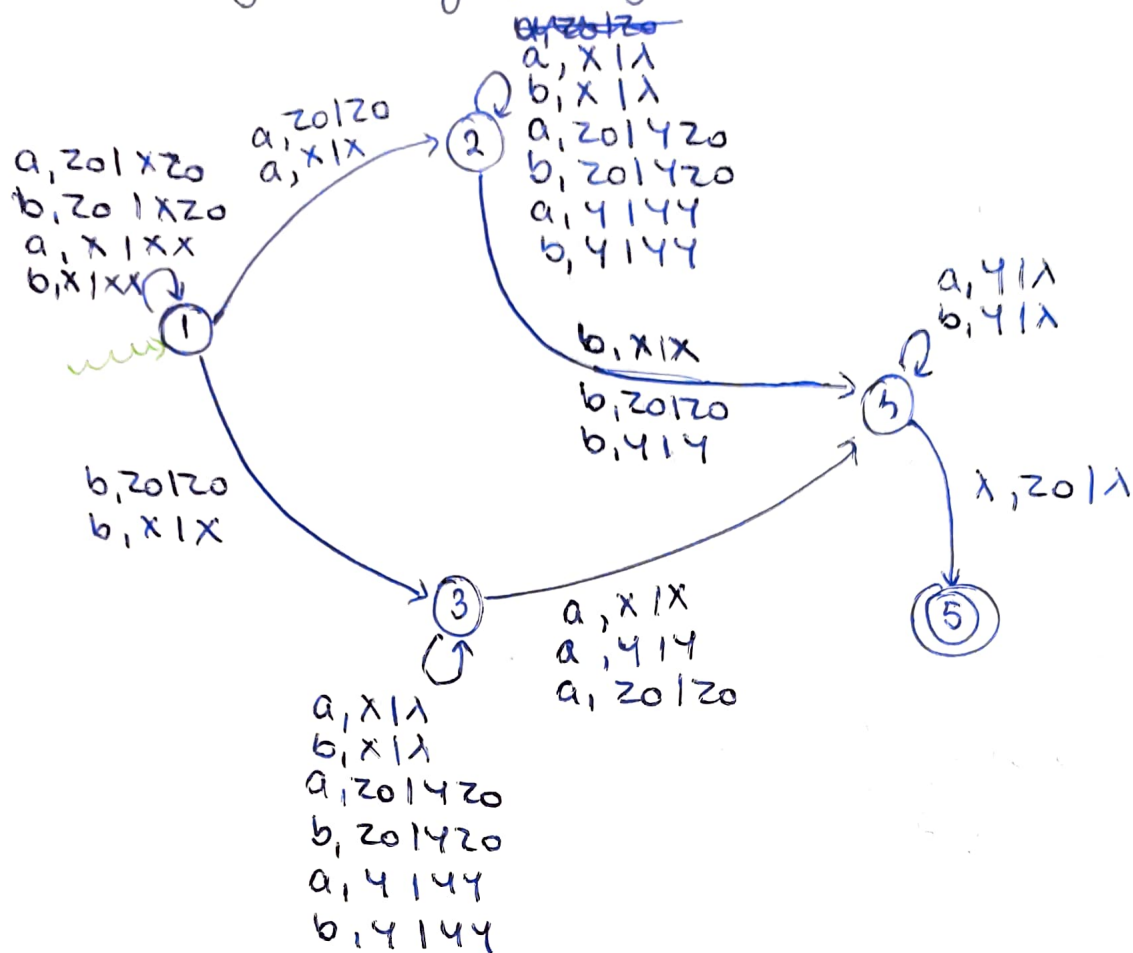


⑤ $\omega \leq \omega\omega \mid \omega \in \{a, b\}^*$

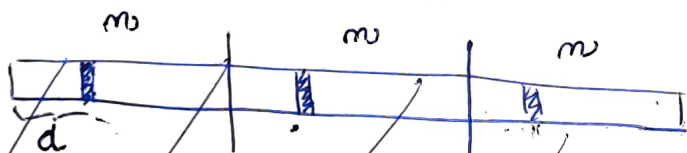


⑥ $L = \{xy \mid |x| = |y|, x \neq y\}$

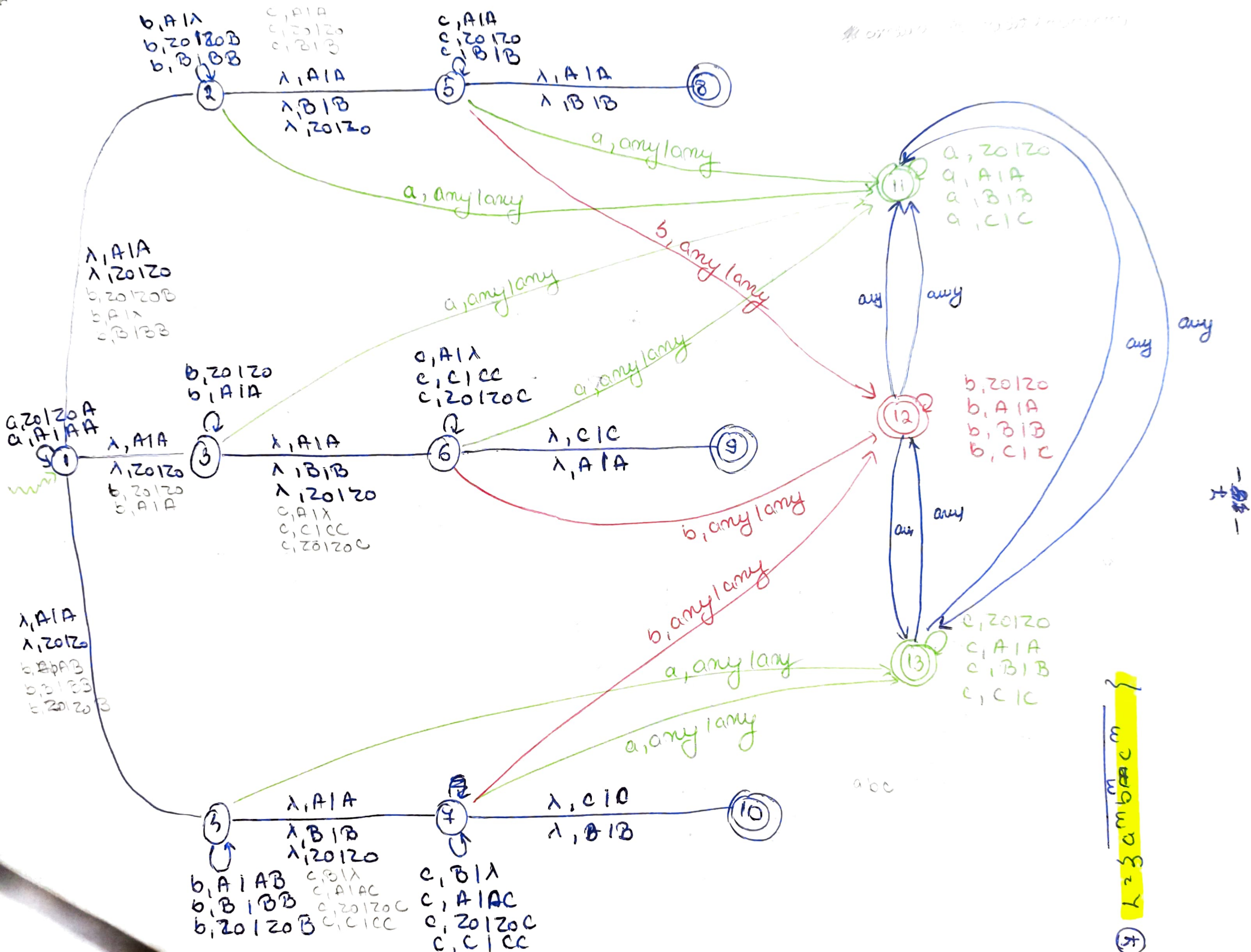
aba: • a



⑦ $L = \{xyz \mid |x| = |y| = |z|, x \neq y \neq z\}$



pun d x-uri; citesc m m' aflu m-d (inotiva am m-d y-uri)
 pama' aleg urmatoare



• (2) 10, 20, 30, 40



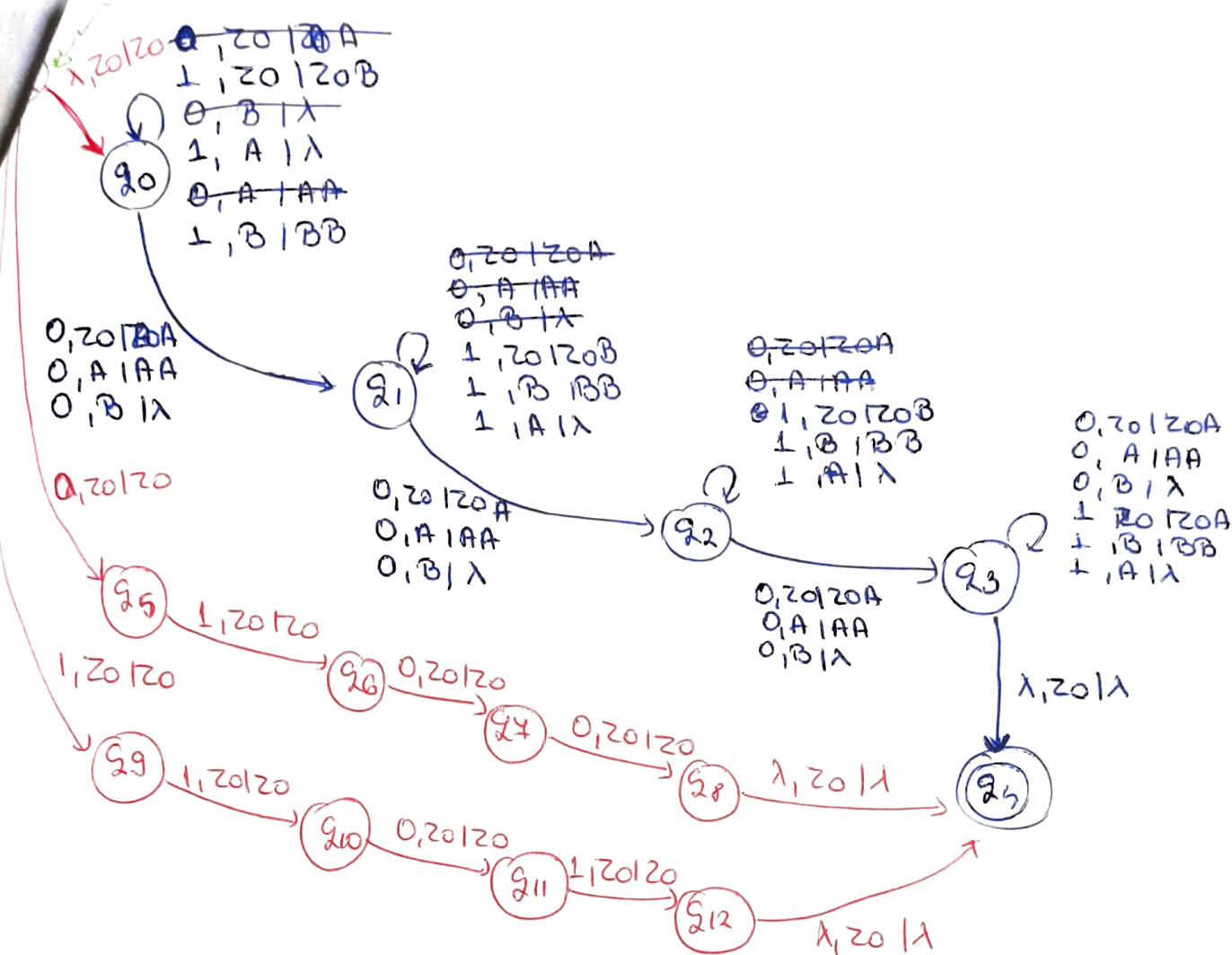
$1 + 3 = 2$

04 KXLY 1/22/22

222 1 1 0

2077 77777

$L = \{ w \mid w \in \{0,1,2\}^*, |w|_0 = |w|_1 + 2 \} \cup \{0100, 1101\}$



9 DPDA $L = \{ w \mid w \in \{0,1,2\}^*, 3|w|_0 = |w|_1 + 2 \}$

- altor cum 0 pum 3A
- umu 0 storage 3B

