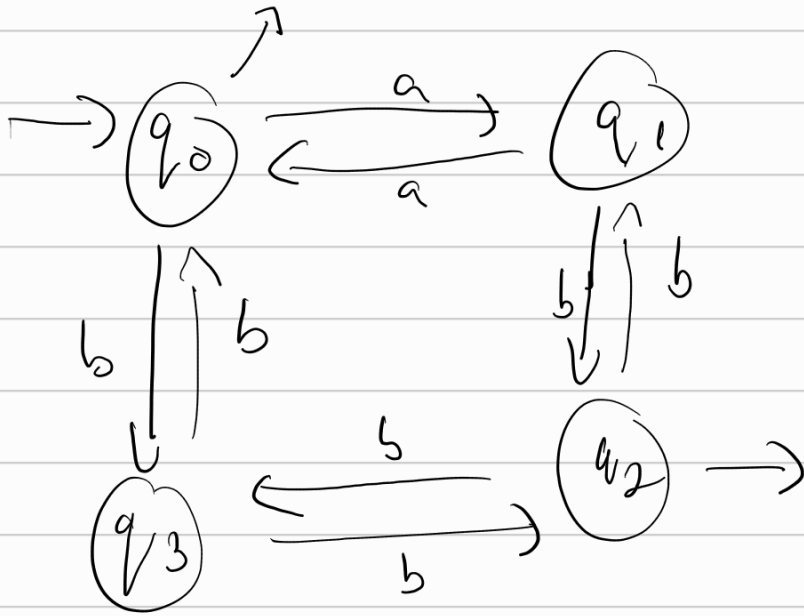
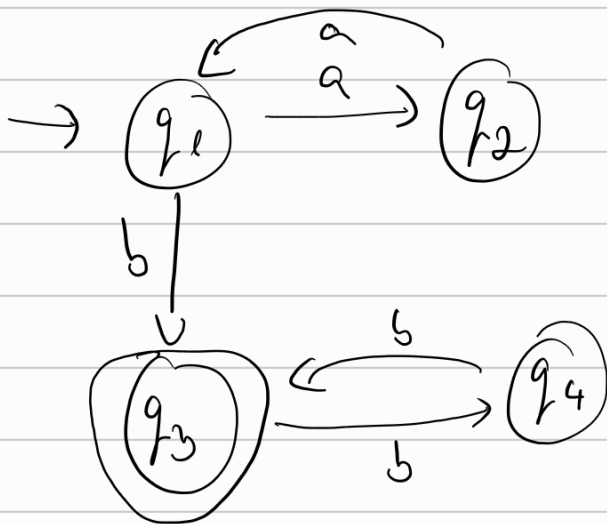


$$L_8 = \{ w \in \{a, b\}^* \mid |w|_a \bmod 2 = |w|_b \bmod 2 \}$$



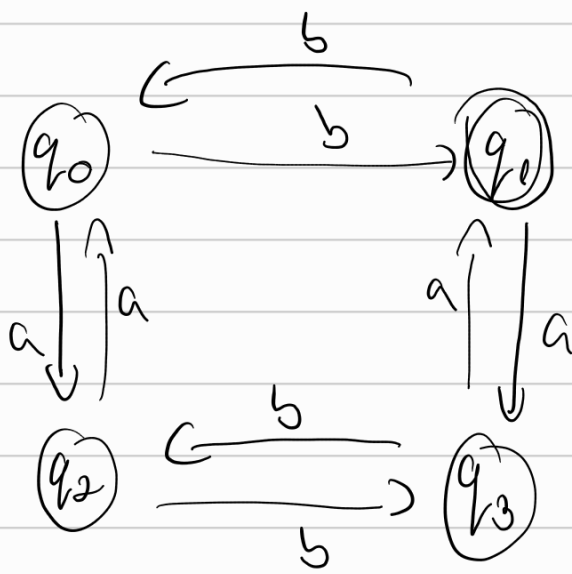
$$L_{11} = \{ a^{2n} b^{2k+1} \mid n \geq 0, k \geq 0 \} =$$

$$= \{ b, a^2 b, a^4 b, \dots, b^3, a^2 b^3, a^4 b^3, \dots \}$$

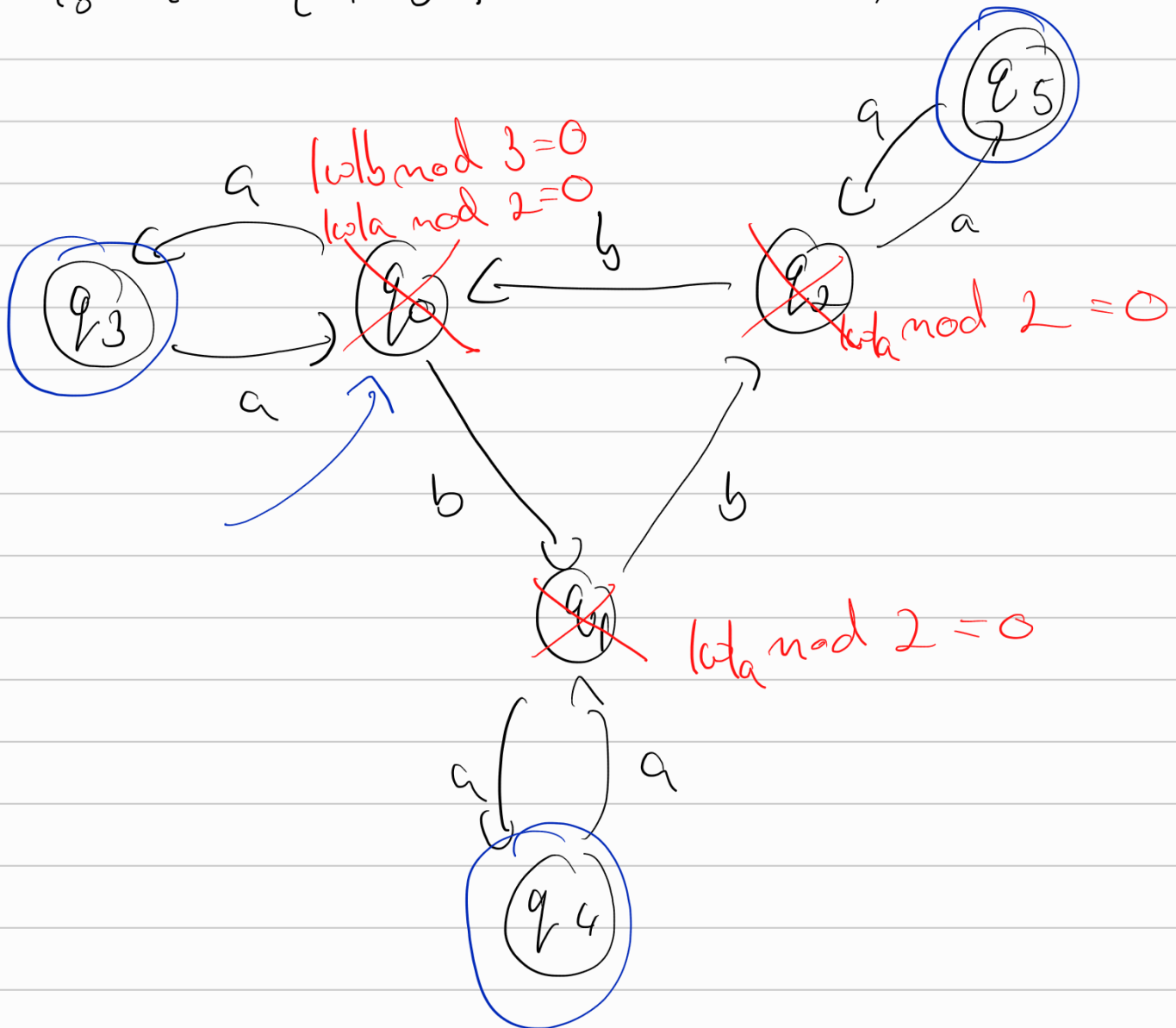


$$L_{12} = \{ w \in \{a, b\}^* \mid |w|_a = 2n, |w|_b = 2k+1, n \geq 0, k \geq 0 \}$$

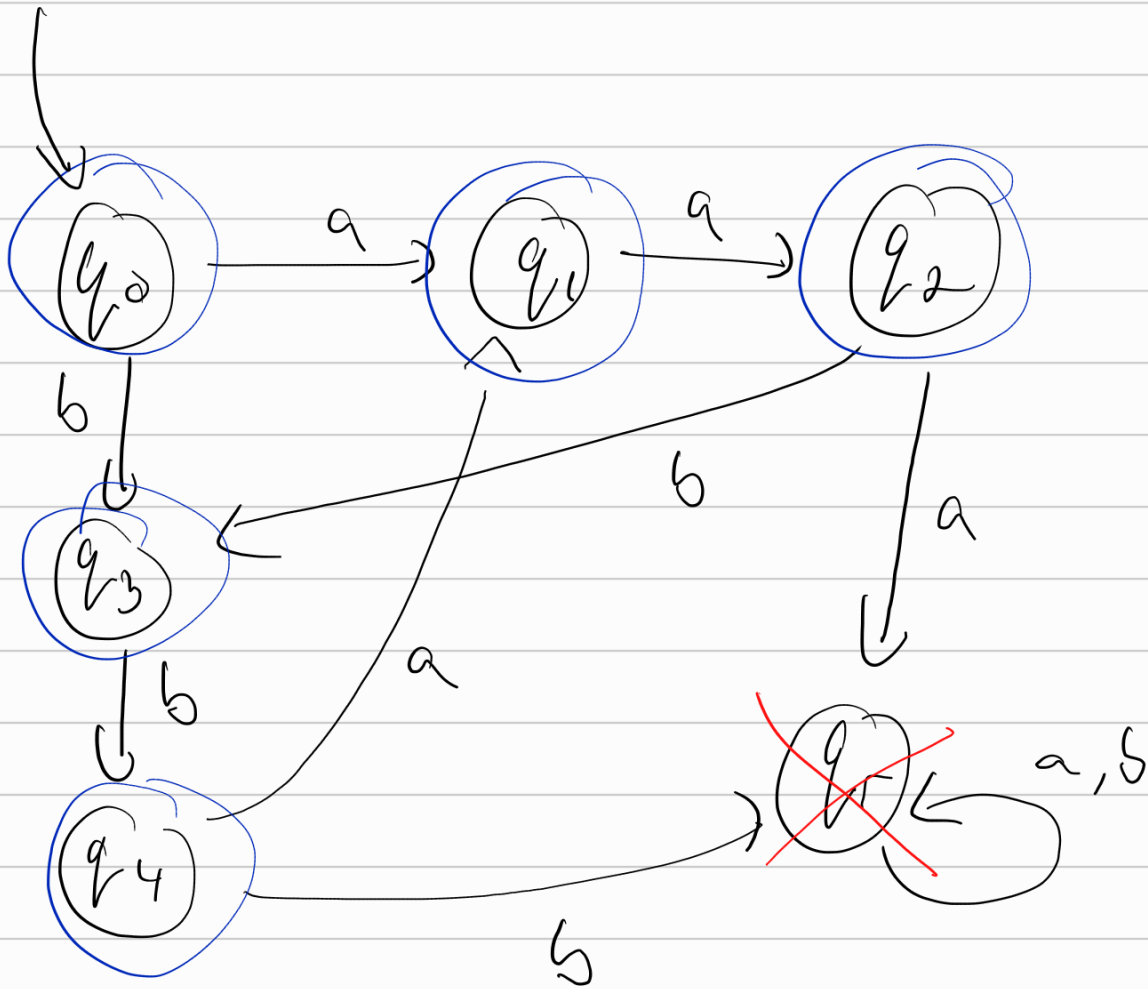
$$= \{ b, aab, aba, aab, aaabb, abbb, \dots, babab, \dots, aaaaabbb, \dots, abbaabab, \dots \}$$



$$L_{12} = \{w \in \{a, b\}^* \mid |w|_a \bmod 2 \neq 0, |w|_b \bmod 3 \neq 0\}$$

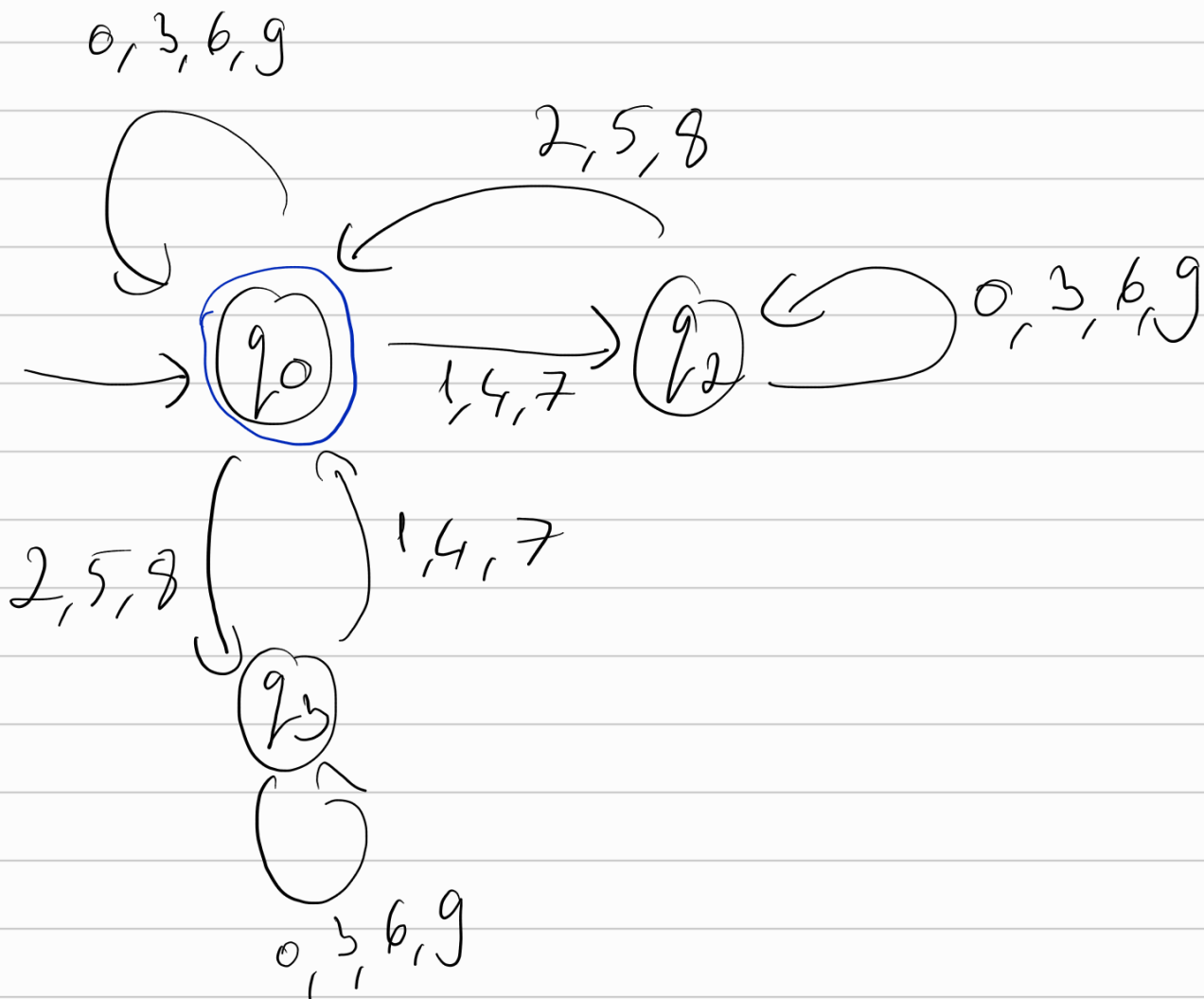


$L_{14} = \{ w \in \{a, b\}^* \mid \text{aaa și bbb nu apar ca subșiruri în } w \}$

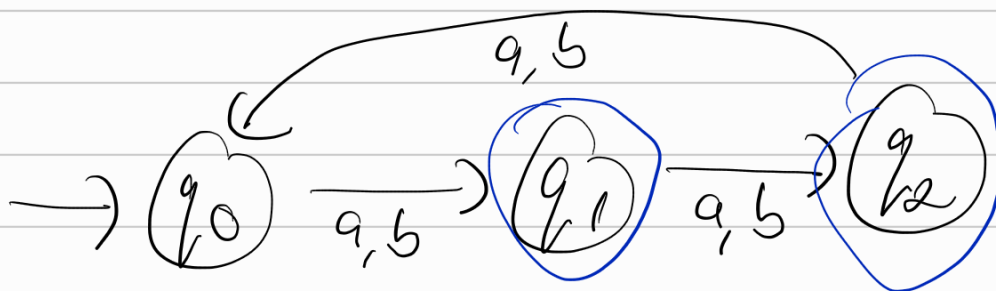


$L_{15}(3) = \{ w \in \{0, 1, \dots, 9\}^* \mid w \text{ reprezintă nr. în baza 10 div cu } 3 \}$

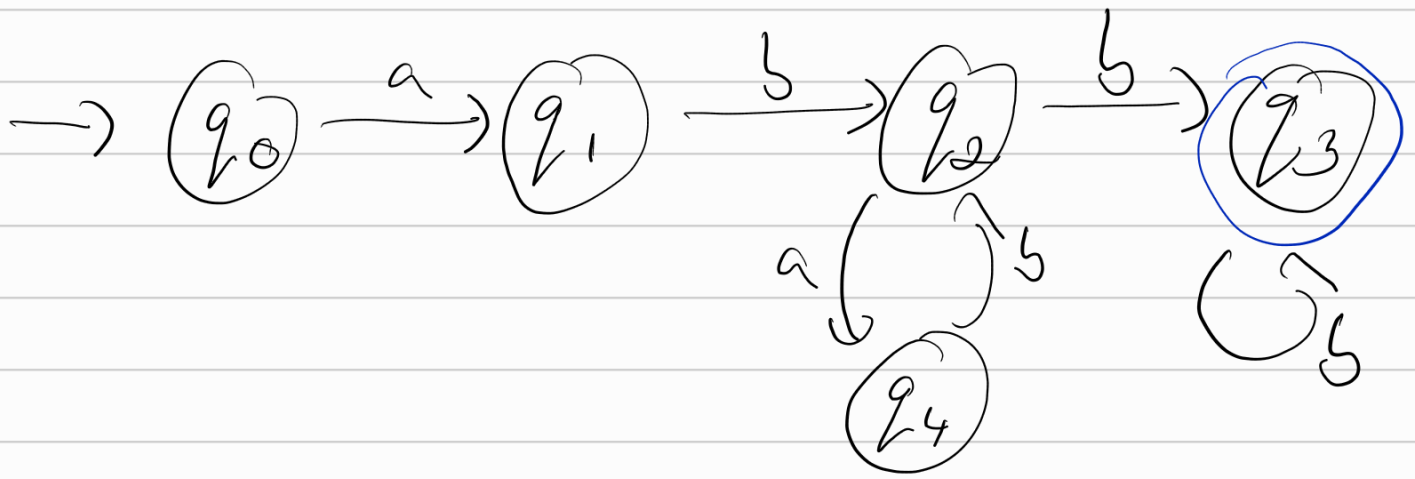
$= \{ 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \dots \}$



$$L_{16} = \{ \omega \mid \omega \in \{a, b\}^*, |\omega| \bmod 3 \neq 0 \}$$



$$L_{17} = \{ (ab)^n b^k \mid n \geq 1, k \geq 1 \}$$



$$L_1 = \{ a^n b^{3k+1} \mid n \geq 2, k \geq 0 \}$$

