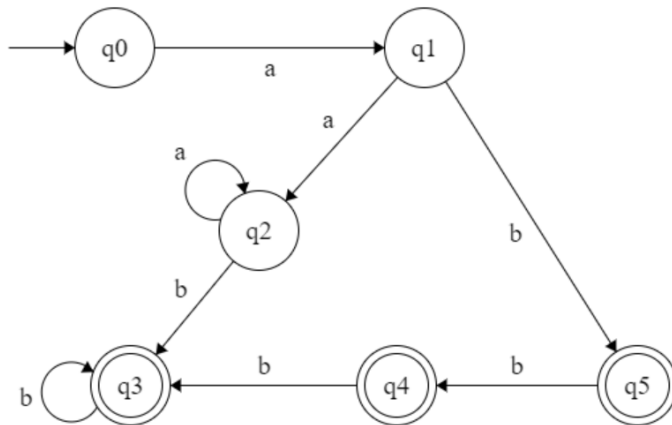


Exercitii – Lab13

1. Care dintre expresii descriu un limbaj acceptat de automatul finit?



a) $a^*(b|\epsilon)^*b$

b) $a^*a^*bb^*b^*$

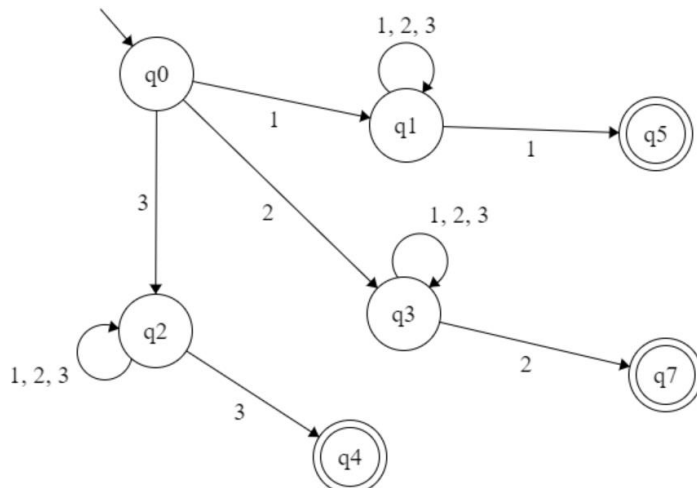
c) $(a|b)^*bb^*$

d) $a^*(bb|b)b^*$

e) a^*b^*

AF ca expresie regulara: $a(aa^*bb^* \cup b \cup bb \cup bbb \cup bbbb^*) = a(aa^*bb^* \cup bb^*) = a(a+b+ \cup b+) = aa^*b+ = a+b+$. Nici una dintre expresii nu este acceptata de AF.

2. Se da $\Sigma = \{1, 2, 3\}$. Se cere un automat finit care sa accepte aba, unde a apartine Σ si b este orice secventa.



	a	b	c
q0	q1	q3	q2
q1	q1, q5	q1	q1
q2	q2	q2	q2, q6
q3			
q4			
q5			
q6			
q7			

=> Este nedeterminist.

3. Se da $L = \{0^m 1^n \mid m, n \text{ apartine } N\}$. Se cere un automat finit determinist pentru L .

