

expresii regulate

Precizati daca secventele ce urmeaza sint elemente ale multimilor regulate reprezentate de expresiile regulate alaturate:

- 01110111 $(1^*01)^*(11+0)^*$
- 11100111 $(1^*0)^*+(0^*11)$
- 1110011 $(1^*0)^*+(0^*11)$
- 1110011 $(1^*0)^*(0^*11)$
- 011100101 $01^*01^*(11^*0)^*$
- 1000011 $(10^*+11)^*(0^*1)^*$

expresii regulate si AF

Sa se construiasca AF care accepta limbajele specificate prin expresiile regulate:

– $(01+1)^* 00 (0+1)^*$

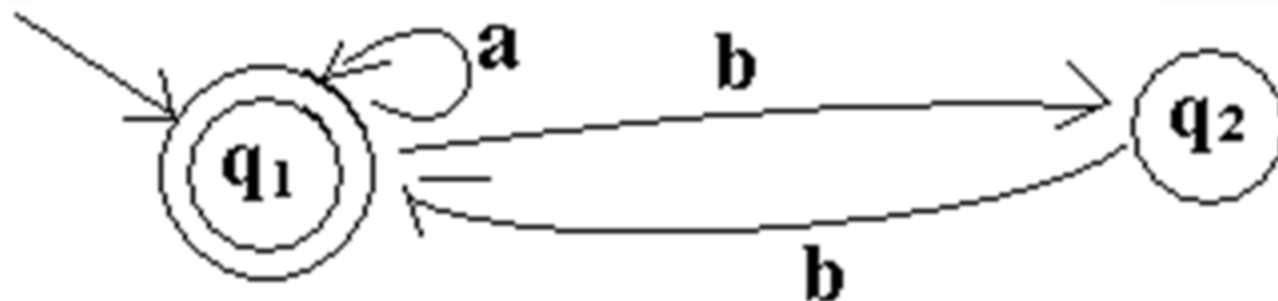
– $(1^*0)^* + 0^*11$

Limbajele acceptate de AF \Rightarrow expresii regulate

- PP: AF $M=(Q,\Sigma, \delta, q_1,F)$
si $Q = \{q_1,q_2,\dots,q_n\}$ (obs.: q_1 - starea initiala)
- notam: R_{ij}^k – multimea tuturor secventelor care duc automatul din starea i in starea j , folosind ca stari intermediare starile q_1,q_2,\dots,q_k
(sau poate trece direct sau automatul este deja in starea j)
- $R_{ij}^0 = \{a \in \Sigma \mid q_j \in \delta(q_i,a) \} \cup \begin{cases} \Phi & \text{daca } q_i \neq q_j \\ \{\varepsilon\} & \text{daca } q_i = q_j \end{cases}$
- $$R_{ij}^k = R_{ij}^{k-1} \cup R_{ik}^{k-1} (R_{kk}^{k-1})^* R_{kj}^{k-1}$$
- $L(M) = \bigcup_{q_j \in F} R_{1j}^n$

Limbajele acceptate de AF \Rightarrow expresii regulate

- construiti expresia regulara care descrie limbajul acceptat de urmatorul automat



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