



Práctica 2

Modelos de Computación

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I Ejercicio 1

Elegir un lenguaje regular, cualquiera. Obtener la expresión regular para las cadenas del lenguaje escogido. En JFlap pasar a NFA -> DFA -> Minimal -> Multiple Run -> Expression regular

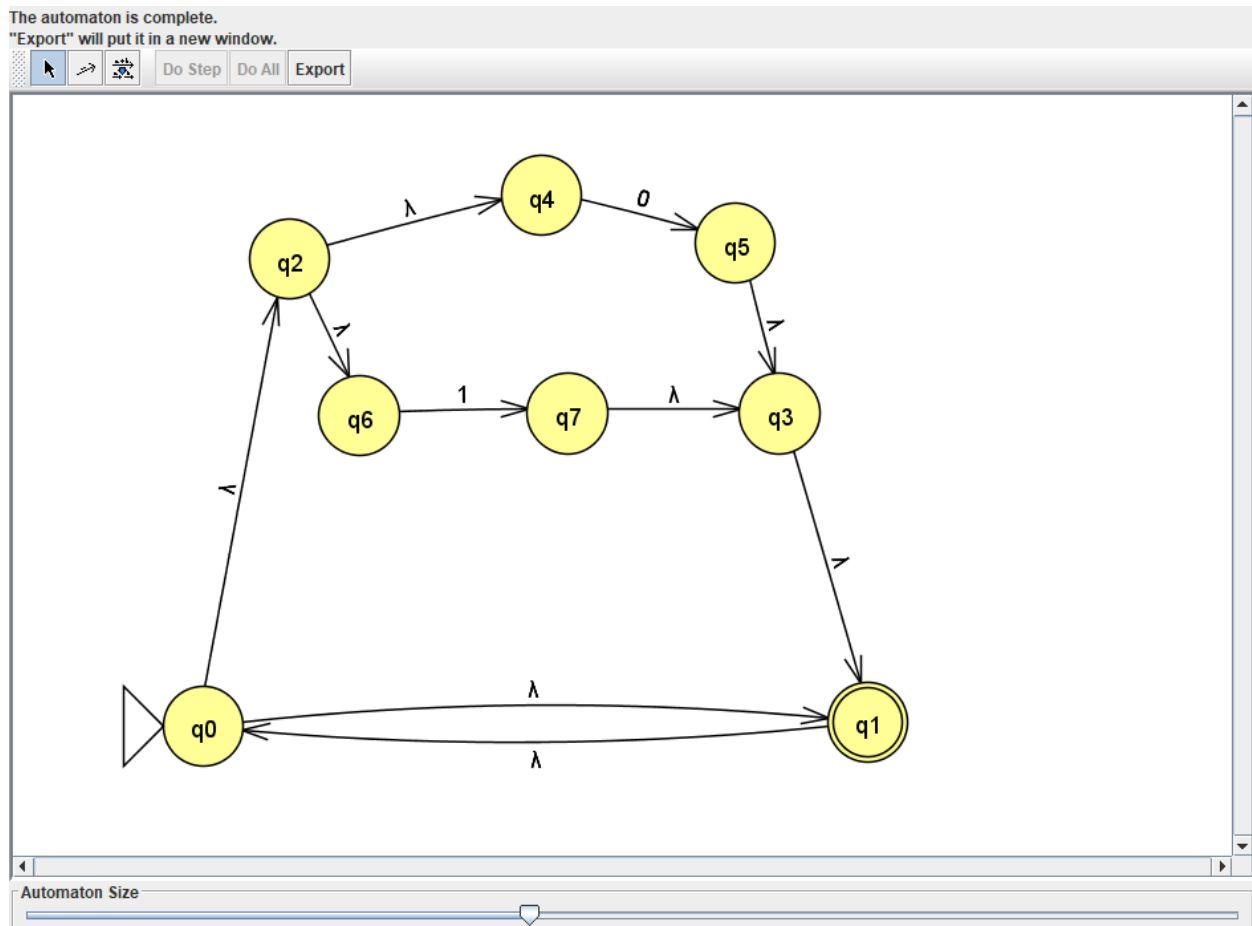
El lenguaje escogido es:

$$L = \{0, 1\}^*$$

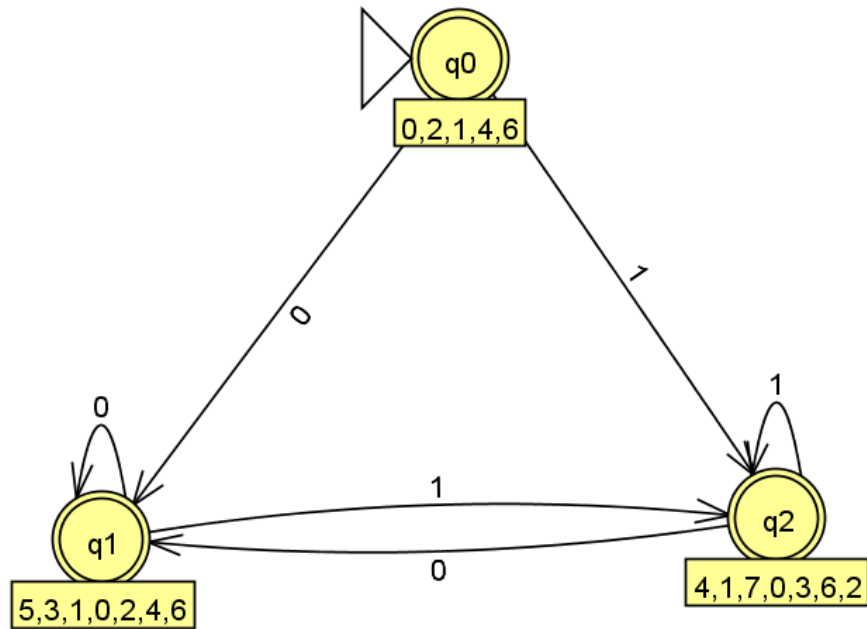
Y la expresión regular es:

$$(0 + 1)^*$$

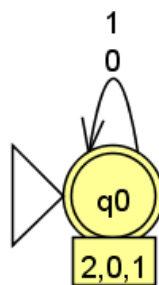
1. Pasar de expresion regular a NFA



2. Pasar de NFA a DFA



3. Pasar de DFA a minimal



4. Multiple run

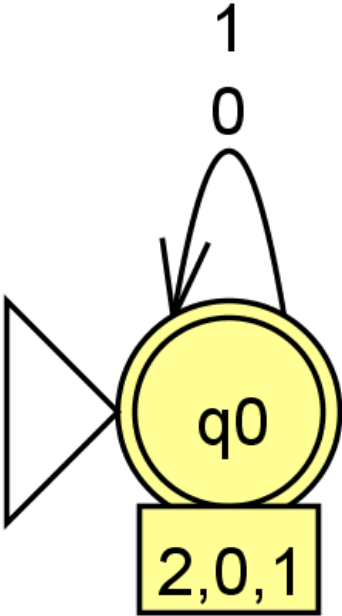


Diagram of a finite state automaton (FSA) with a single state q_0 . The state is represented by a yellow circle. A triangle on the left points to q_0 , indicating it is the start state. A self-loop on q_0 is labeled with '1' above and '0' below. Below the state circle is a box containing the tuple $2,0,1$.

Table Text Size

Input	Result
01001010101	Accept
01001001010	Accept
11111111111	Accept
00000000000	Accept
10101011101	Accept

Load Inputs Run Inputs Clear Enter Lambda View Trace

5. Pasar de minimal a gramatica

Hint Show All What's Left? Export

LHS		RHS
S	→	0S
S	→	1S
S	→	λ

Table Text Size

6. Pasar de DFA a expresion regular

Generalized Transition Graph Finished!

File Convert Help

Editor

Edit the regular expression below:

$(1+0)^*$

Input Field Text Size (For optimization, adjust the size of this window after resi