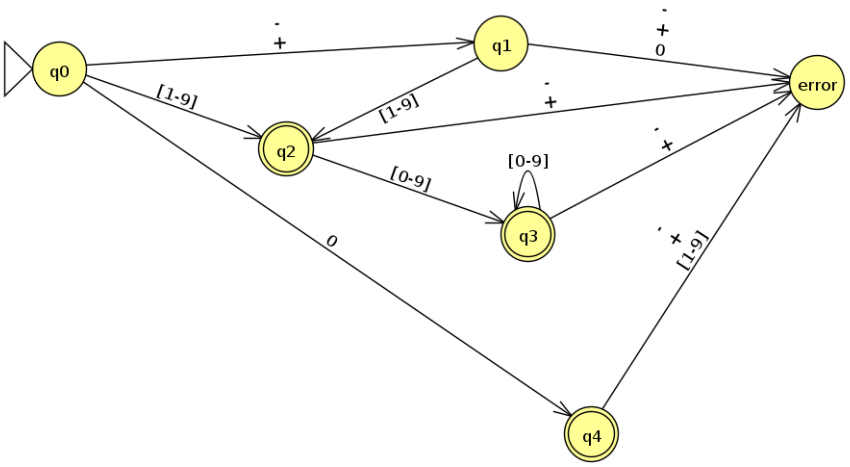
Trabajo Teórico

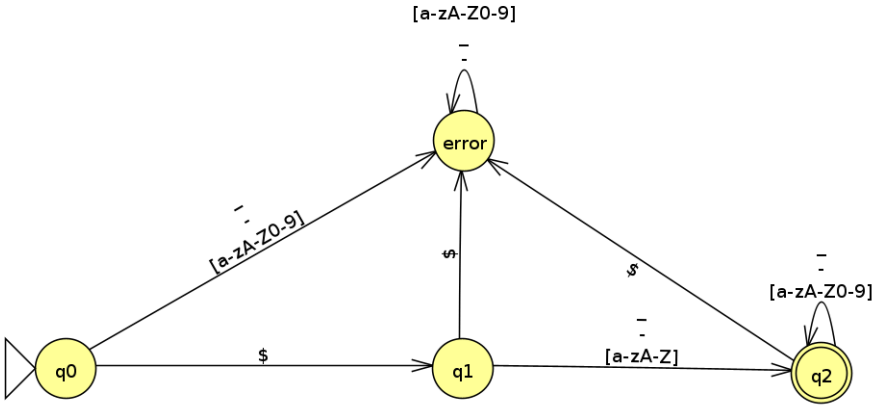
Tokens	
Tipo	**Expresion Regular**
Entero	[+-]?([1-9][0-9]*|0)
Decimal	[+-]?([1-9][0-9]*|0)\.[0-9]+
Identificador	\$(?:[a-zA-Z0-9_-])+
Palabra Reservada	\b(if|class|for|then|else|public|private|package|import|static|void|int|true|false|extends|short|boolean|float|interface|final|protected|return|while|case|implements)\b
Literal	"([^"\n]*)"|'(?:[^'\n]*)'
Puntuacion	[.,;:]
Op. Aritmetico	[+\-*/^]
Op. Relacional	(<=|>=|<|>)
Op. Logico	\b(AND|OR)\b|&&|||
Op. Asignacion	=
Agrupacion	[()\[\]{}]
Comentario de Linea	#.*
Comentario de Bloque	/*[\s\S]*?*/

Tokens	
Tipo	**Gramatica Regular (N, T, S, P)**
Entero	({S, A, B}, {0-9, +, -}, S, { S -> A | +A | -A, A -> 0-9B | 0, B -> 0-9B | ε })
Decimal	({S, A, B, C, D}, {0-9, ., +, -}, S, { S -> A.B | -A.B | +A.B, A -> 0-9C | 0, C -> 0-9C | ε, B -> 0-9D, D -> 0-9D | ε })
Identificador	({S, B, C}, {$, a-z, A-Z, 0-9, _, -}, S, { S -> $(C|B)*, B → a-z | A-Z | _ | -, C → 0-9 })
Palabra Reservada	({S}, {a-z}, S, { S -> if | class | for | then | else | public | private | package | import | static | void | int | true | false | extends | short | boolean | float | interface | final | protected | return | while | case | implements })
Literal	({S, C}, {*, '', '}, S, { S -> "C*" | 'C*', C -> * })
Puntuacion	({S}, {., ,, ;, :}, S, { S -> . | , | ; | : })
Op. Aritmetico	({S}, {+, -, *, /, ^}, S, { S -> + | - | * | / | ^ })
Op. Relacional	({S}, {<, >, =}, S, { S -> < | > | <= | >= })
Op. Logico	({S}, {A, N, D, O, R, &, |}, S, { S -> && | || | AND | OR })
Op. Asignacion	({S}, {=}, S, { S -> = })
Agrupacion	({S}, {(,), {, }, [,]}, S, { S -> (|) | { | } | [|] })
Comentario de Linea	({S, A}, {#, *}, S, { S -> #A*, A -> * })
Comentario de Bloque	({S, A}, {/, '*', *}, S, { S -> /*A*/, A -> * })

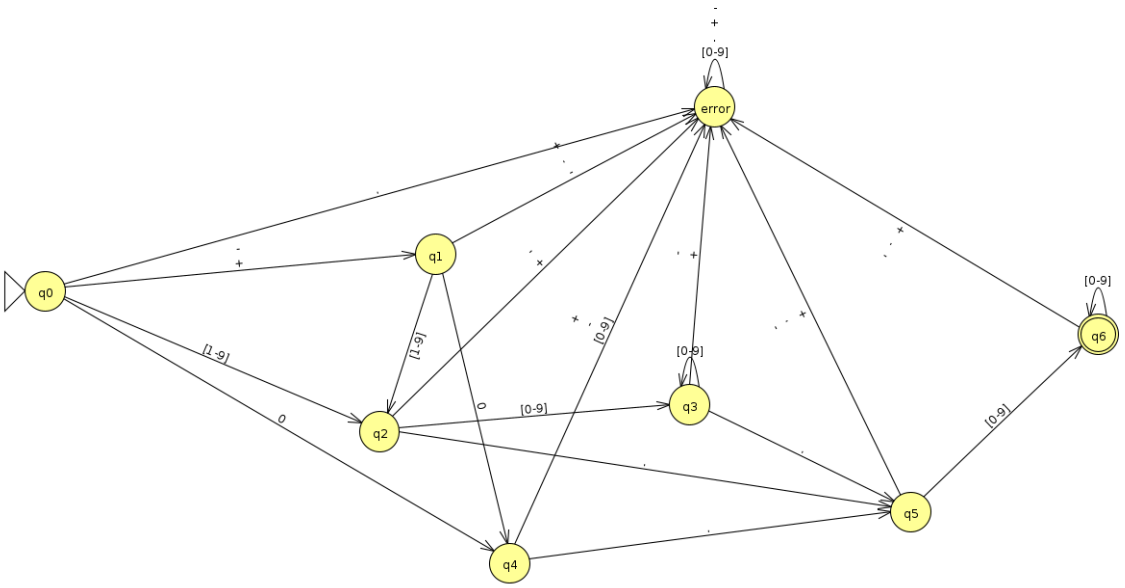
Entero



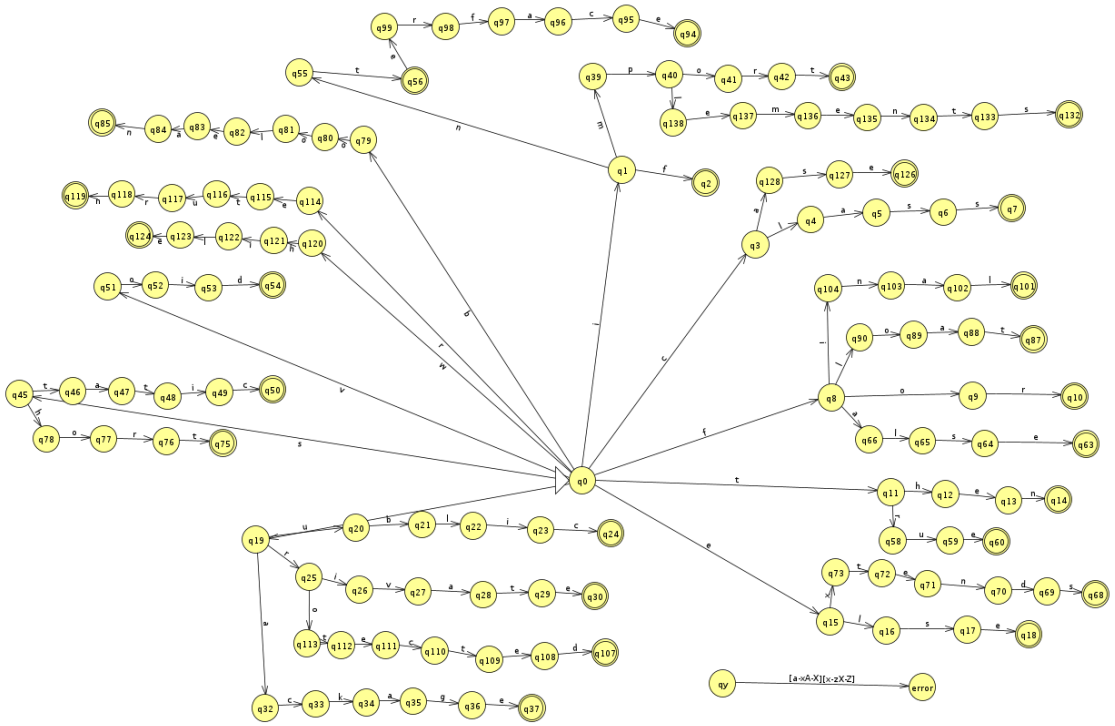
Identificador



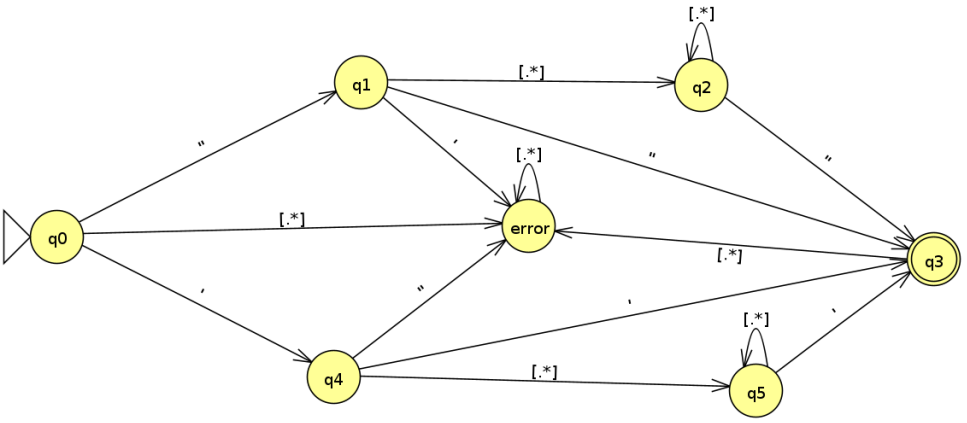
Decimal



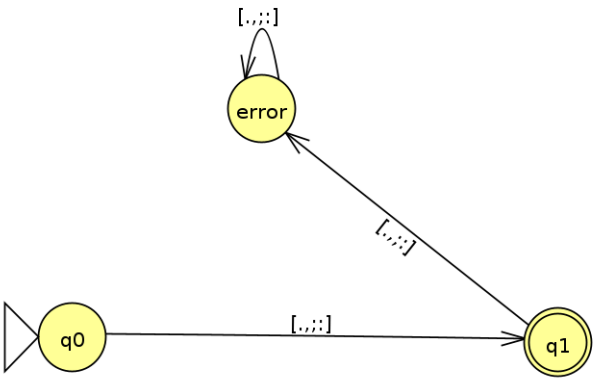
Palabra reservada



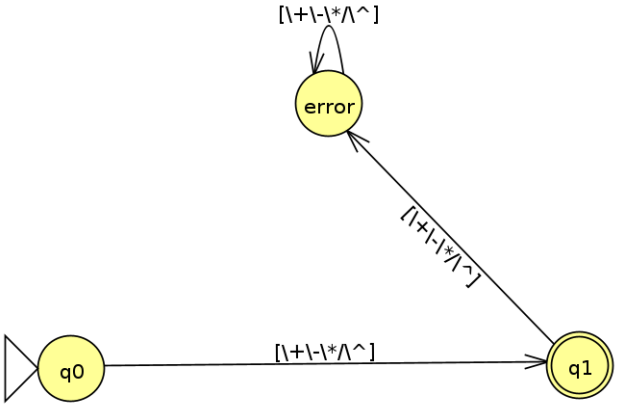
Literal



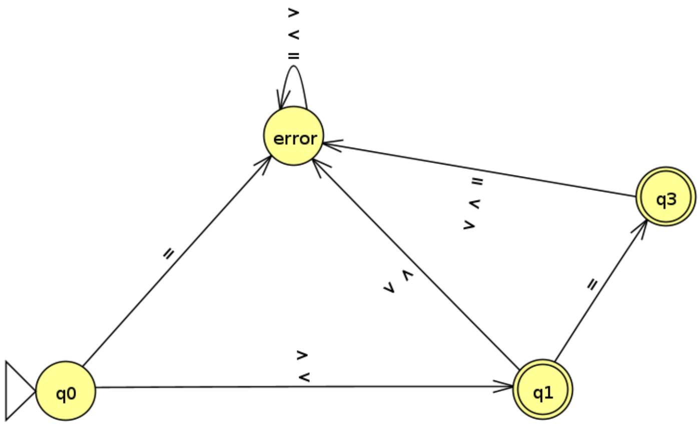
Puntuacion



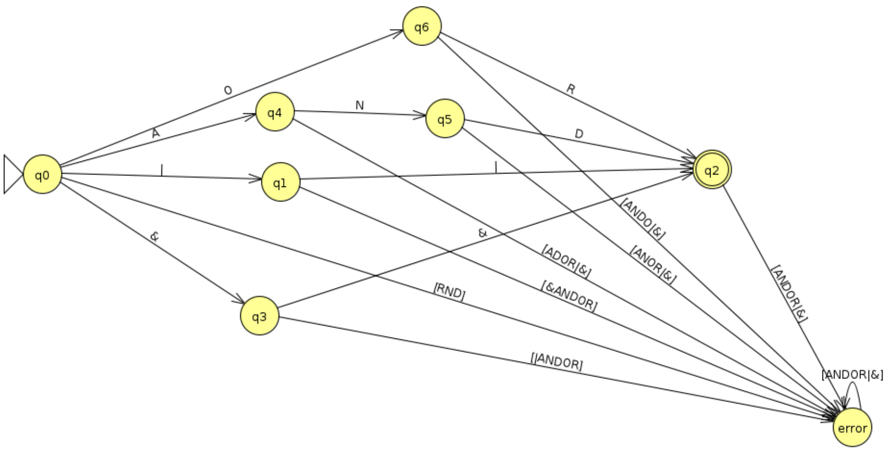
Aritemetico



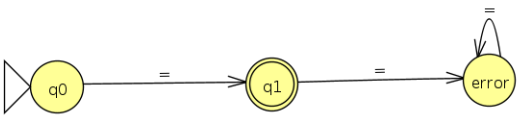
Relacional



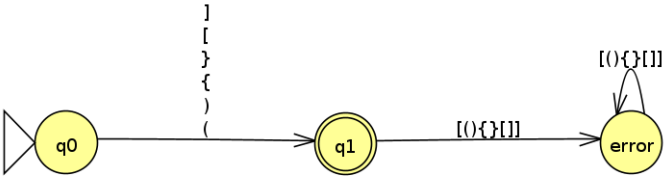
Logico



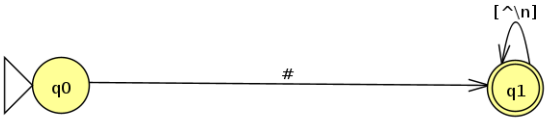
Asignacion



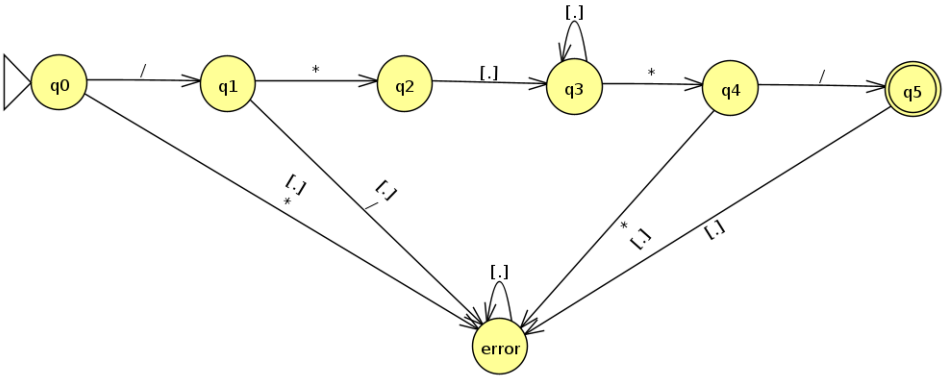
Agrupacion



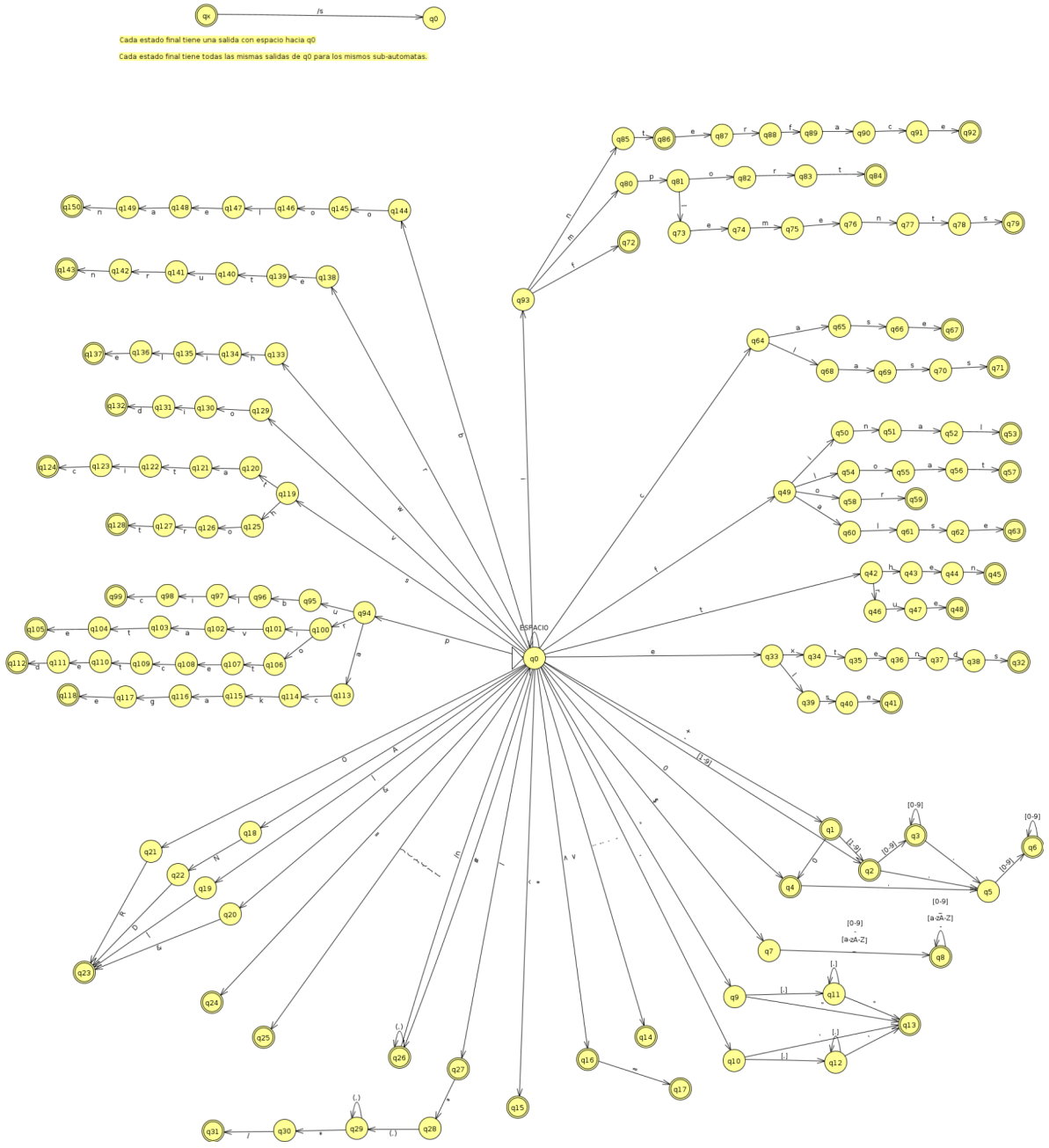
Comentario Linea



Comentario Bloque



Automata General


qk
/s
q0
Cada estado final tiene una salida con espacio hacia q0
Cada estado final tiene todas las mismas salidas de q0 para los mismos sub-automatas.
ESPACIO
[1-9]
[0-9]
[a-zA-Z]
(.)