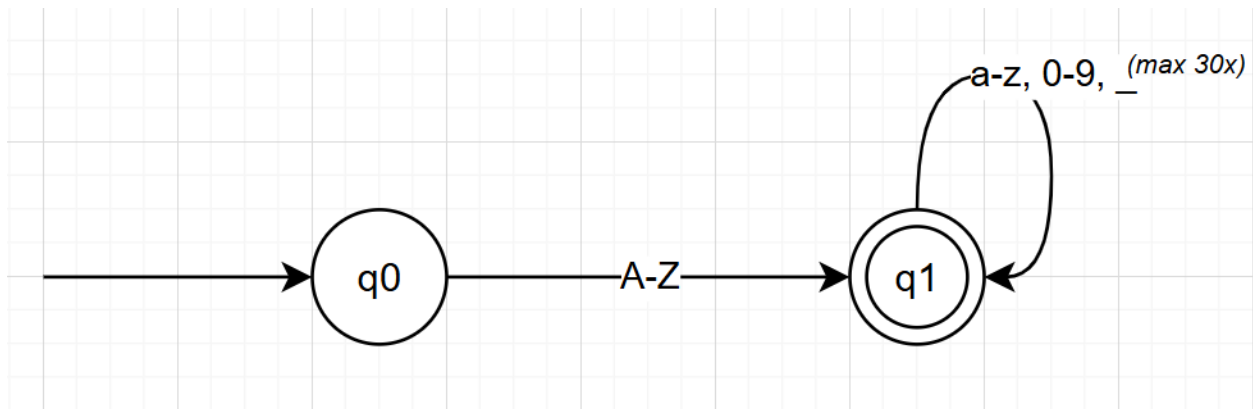


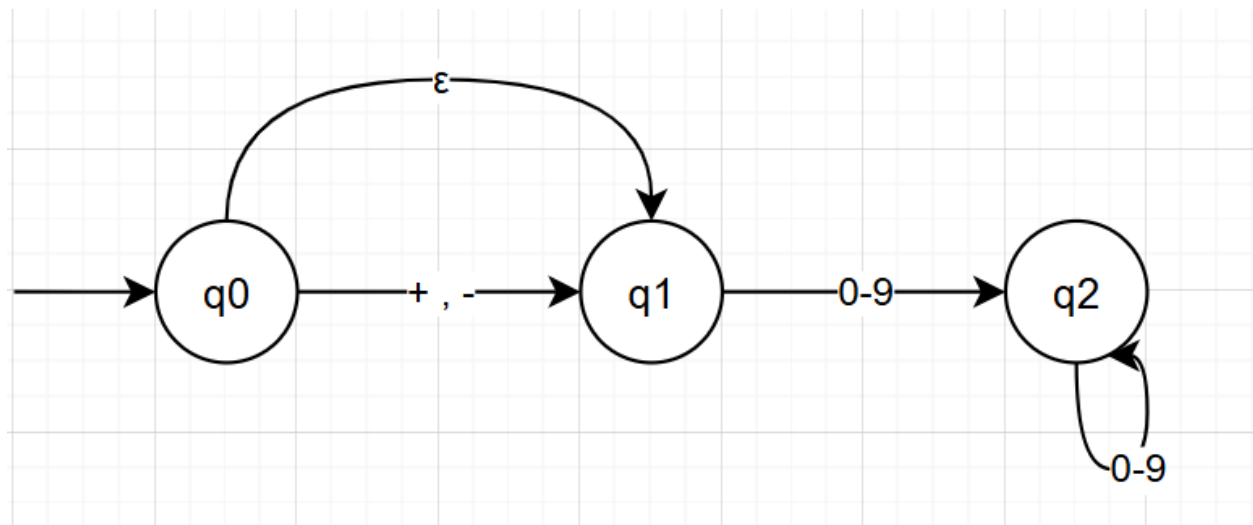
Assignment 1

Regular Expressions & NFAs:

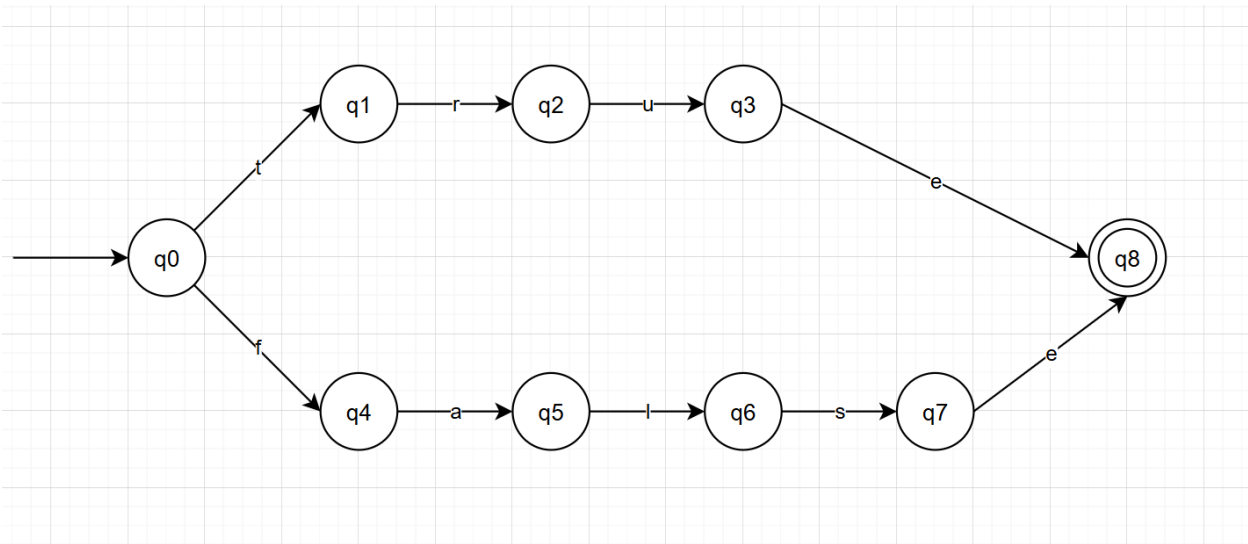
Identifiers regex: $[A-Z][a-z0-9_]{0,30}$



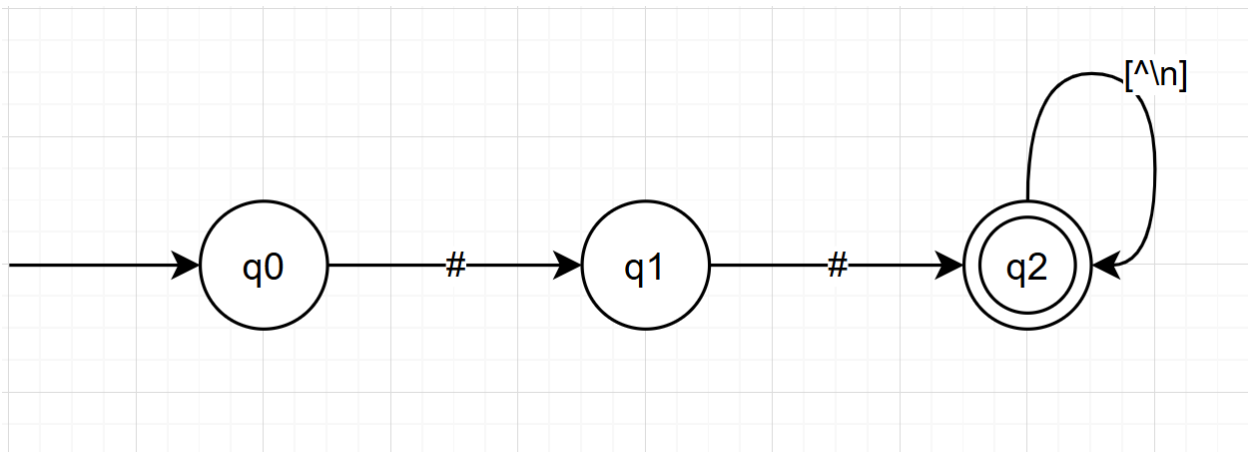
Integer Literals Regex: $[+-]?[0-9]^+$



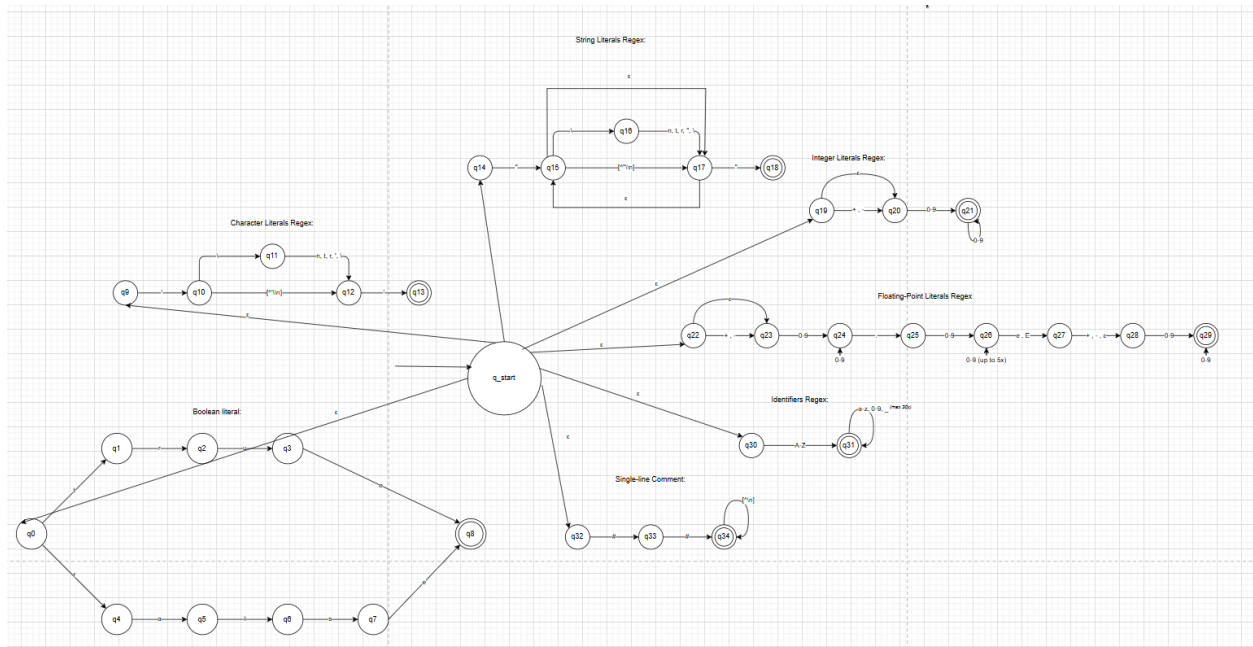
Floating-Point Literals Regex: $[+-]?[0-9]^+.[0-9]{1,6}([eE][+-]?[0-9]^+)?$



Single-line Comment: $##[^\backslash n]^*$



Combined NFA:



DFA Transition Table:

Current State	[A-Z]	[a-z0-9_]	[0-9]	[+-]	.	e/E	t	f	#	'	"	\	Other
Start	Identifier	-	Integer	got '+/-'	-	-	got 't'	got 'f'	got '#'	Char Open	String Open	-	DEAD
Identifier*	-	Identifier	Identifier	-	-	-	-	-	-	-	-	-	DEAD
Integer*	-	-	Integer	-	got '.'	-	-	-	-	-	-	-	DEAD
got '+/-'	-	-	Integer	-	-	-	-	-	-	-	-	-	DEAD
got '.'	-	-	Float	-	-	-	-	-	-	-	-	-	DEAD
Float*	-	-	Float	-	-	got 'e/E'	-	-	-	-	-	-	DEAD
got 'e/E'	-	-	Float+Exp	got 'e+/-'	-	-	-	-	-	-	-	-	DEAD
got 'e+/-'	-	-	Float+Exp	-	-	-	-	-	-	-	-	-	DEAD
Float+Exp*	-	-	Float+Exp	-	-	-	-	-	-	-	-	-	DEAD
got 't'	-	-	-	-	-	-	-	-	-	-	-	-	DEAD
true*	-	-	-	-	-	-	-	-	-	-	-	-	DEAD
got 'f'	-	-	-	-	-	-	-	-	-	-	-	-	DEAD
false*	-	-	-	-	-	-	-	-	-	-	-	-	DEAD
Char Open	Char Body	Char Body	Char Body	Char Body	Char Body	Char Body	Char Body	Char Body	Char Body	-	Char Body	Char Escape	DEAD

