Compiler#2 Project

Language:

Regular Expressions:

1- Identifiers

Letter (Letter | Digit)*

2-Constants (No leading zeros)

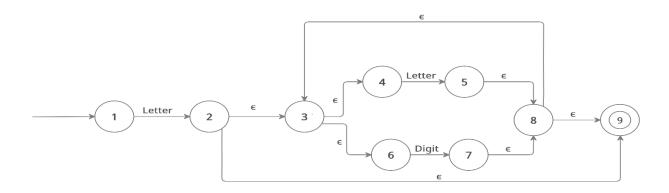
[0-9]([0-9])*

3- Relational operators

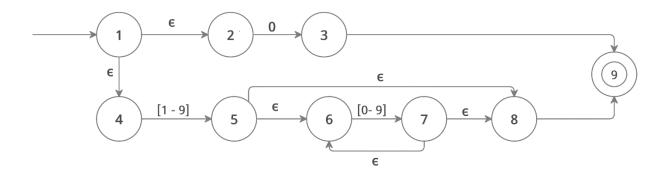
4- Comments and uncomments

NFA:

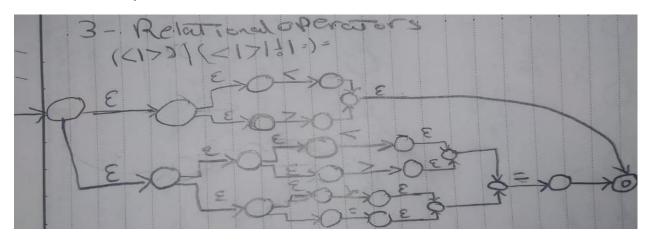
1- Identifier



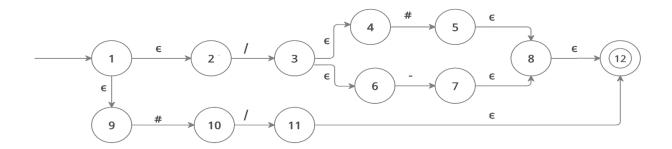
2- Constants



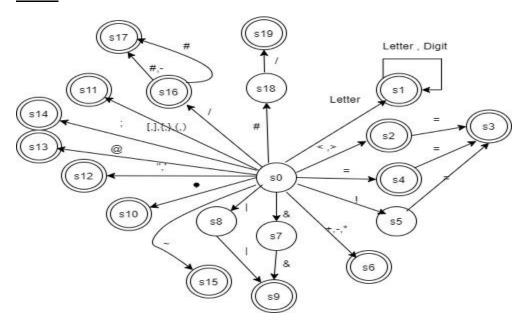
3 Relational operators



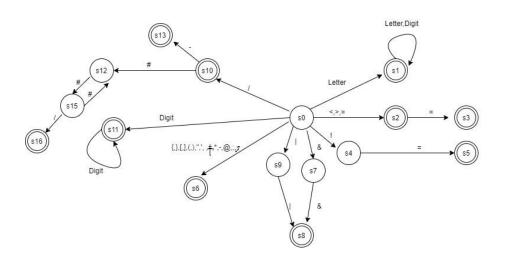
4- Comments and uncomments



DFA:



Minimization DFA:



Transition table:

States	letter	digit	<	>	=	!		&	{	}	[]	()	u	1	+	-	*	,	@	;	/	#	-	accepting
S0	S1	S11	S2	S2	S2	S4	S9	S7	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S6	S10			
S1	S1	S1																								yes
S2					S3																					yes
S3																										yes
S4					S5																					
S5																										yes
S6																										yes
S7								S8																		
S8																										yes
S9							S8																			yes
S10																									S13	Yes
S11		S11																								yes
S12																								S15		
S13																										Yes
S14																										
S15																							S16	S12		
S16																										yes