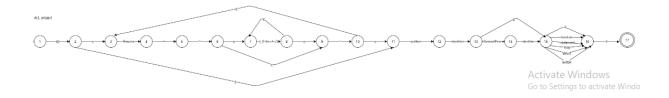
# All Used RegX

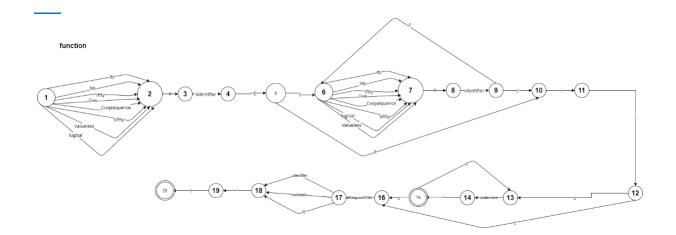
## All project

• L(r) =@ ((Require = "([\_A-Za-z0-9]) \* ") \* (Pattern identifier (DerivedFrom identifier)? (Function| Statement | struct | if | switch |Loop)+)+\$

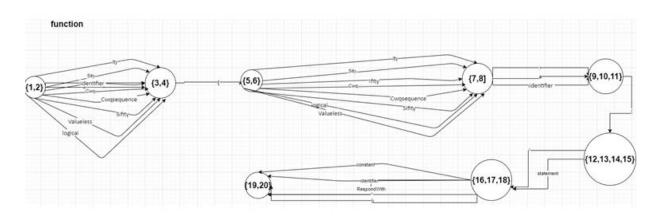


## **Function**

L(r) = (Ity|Sity|Cwq|Cwqsequence|Ifity|Sifity|Valueless|logical) # identifier \( ((Ity|Sity|Cwq|Cwqsequence|Ifity|Sifity|Valueless|logical) # identifier ,)\* \) \{ (Statements ^)\* Respondwith (identifier | constant | ε) ^ \}

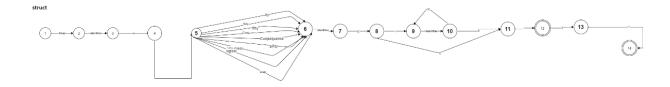


				DFA	Function	Transition	Table				
State	DataType	identifier	#	Statement	Constant	RespondW	(	)	{	}	۸
{1,2}	2	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}	{1,2}
{3,4}	{3,4}	{3,4}	3	{3,4}	{3,4}	{3,4}	{3,4}	{3,4}	{3,4}	{3,4}	{3,4}
{7,8}	{7,8}	{7,8}	8	{7,8}	{7,8}	{7,8}	{7,8}	{7,8}	{7,8}	{7,8}	{7,8}
{9,10,11}	{9,10,11}	{9,10,11}	{9,10,11}	{9,10,11}	{9,10,11}	{9,10,11}	{9,10,11}	11	12	{9,10,11}	{9,10,11}
{12,13,14,15}	2,13,14,1	2,13,14,1	2,13,14,1	14	2,13,14,1	2,13,14,1	2,13,14,1	2,13,14,1	2,13,14,1	{12,13,14,15}	15
{16,17,18}	{16,17,18}	{16,17,18}	{16,17,18}	{16,17,18}	{16,17,18}	17	{16,17,18}	{16,17,18}	{16,17,18}	{16,17,18}	19
{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	{19,20}	20	{19,20}



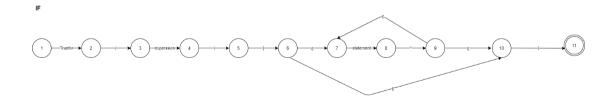
# **Struct**

L(r) = Srap identifier \{ (( Ity | Sity | Cwq | Cwqsequence | Ifity | Sifity | Valueless | logical | Srap) identifier (,identifier)\* ^)+ \} ^



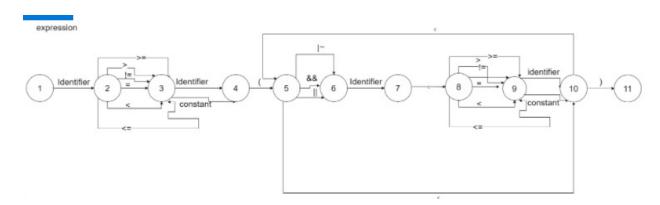
# <u>If</u>

• L(r) = Truefor \( expression \) \{ Statements^\* \}



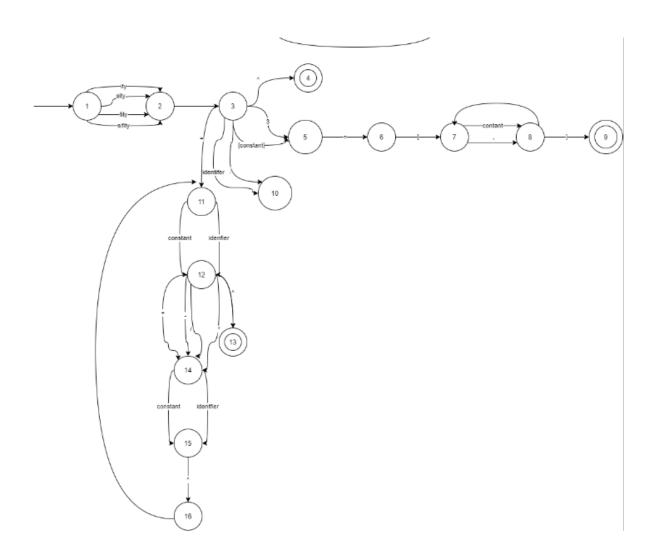
## **Expression**

• L(r) = (identifier) (==|>|<|>=|(=) (identifier| constant) ( (&&| || | $^{\sim}$  ) (identifier) (==|>|<|>=|(=) (identifier| constant))\*

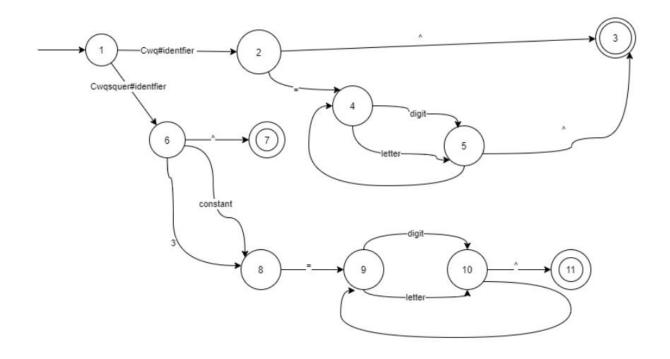


## **Statements**

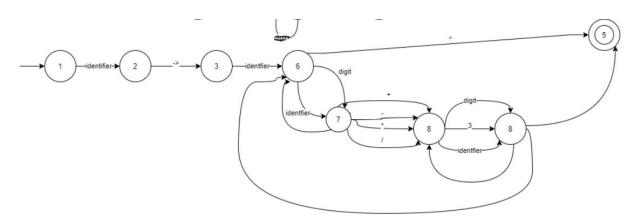
L(r) = ((Ity | Sity | fity | Sifity) # identifier ( ^ | ( \[ constant \] )? \[ constant \] = \[ (constant \] (,constant)\*) \] | , identifier | ( = ( identifier | constant) (^ | ( + | - | \* | / ) ( identifier | constant )))\* ^ )\*



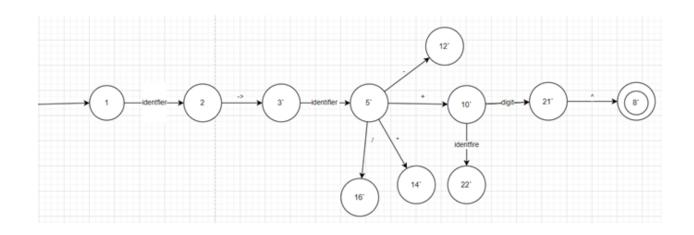
• L(r) = ( (Cwq # identifier (^|= '[A-Za-z0-9]' ^ ) | Cwqsequence # identifier (^ | | \[ constant \] )? \[ constant \] = ["[A-Za-z0-9]\*" (,[A-Za-z0-9]\*)\* ] |= " [A-Za-z0-9]\*" ^ ) )\*



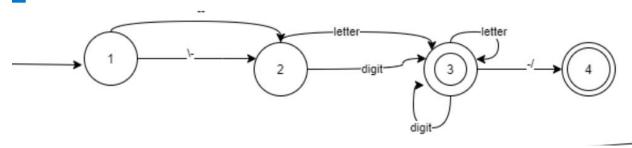
•  $L(r) = ( \ \ | \ (- \ ) \$ 



	identifier	->	+	-	*	/	digit	accepting
	_							
1	2							no
2		3`						no
3`	5`							no
5`			10`	12`	14`	16`		no
10`	22`						21`	no
21`	8`							no

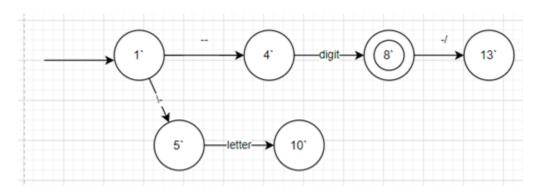


• L(r) = L(r) = ( (-- | \-) ([\_A-Za-z0-9])\* (-/)? )\*



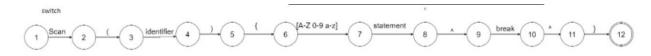
	-/	digit	letter	accepting

1`	4`				no
4`			8`		yes
8`		13`			no
5`				10`	no



# **Switch**

•  $L(r) = Scan \ (identifier) \ (Condition of [A-Z-0-9-a-z] : (statement^) + break^) + \ )$ 



# Loop

• L(r) = Whatever \( expression+ \) \{ (statements^)\* \}

