*Flowchart of the get\_token(), which is used to extract the values of the logical symbols pointed by char \*prog passed as individual expressions, tokenize them and return the value as well as the type of the token.*

Start

If( iswhite())

If( Isdigit())

If( isalpha())

If(‘+’,’-’,’\*’,’%’) any operator??

Skip over white spaces.

Token: Extracted number. Tok\_type: NUMBER

Token: Identifier name.

Tok\_type: IDENTIFIER

Token: Operator value.

Tok\_type: OPERATOR

1

2

Y

Y

Y

Y

N

N

N

If( ‘(’ || ‘)’ ) parenthesis?

If( ‘\n’|| ‘\r’)

Unrecog. characters

Token : ‘(’ or ’)’

Tok\_type: DELIMITER

Token: ‘\0’. End of expre.

Tok\_type: END.

Serror: UNRECOGNIZED CHARACTER

1

2

End

Y

Y

Y

N

N

N