



Universidade Federal do Ceará  
Campus Crateús

Ciência da Computação  
Compiladores

# Expressões Regulares da Linguagem C

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## 1 Expressões regulares da linguagem C

Descrição das expressões regulares:

Palavra:

```
word = [A-Za-z]
```

Número:

```
digit = [0-9]
```

Identificador:

```
id = ([A-Za-z] + [0-9])*
```

Tipo de dados:

```
data_type = int | float | char | void
```

Char literal:

```
char_literal = '(.)'
```

String literal:

```
string_literal = "(.)+"
```

Inteiro literal:

```
integer_literal => [0-9] +
```

Flutuante literal:

```
float_literal => ([0-9] +) . ([0-9] +)
```

Operadores booleana:

```
boolean_operator = == | != | ! | >= | > | <= | < | && | ||
```

Operadores aritméticos:

```
arithmetic_operator = + | - | * | / | % | ++ | -- | += |  
*= | /=
```

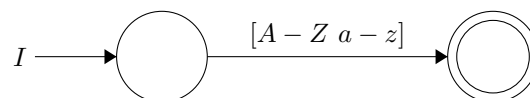
Delimitadores:

```
delimiter = , | ;
```

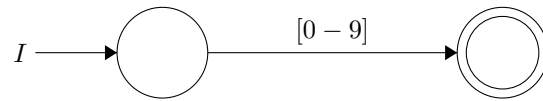
## 2 Autômatos C

Autômatos das expressões acima:

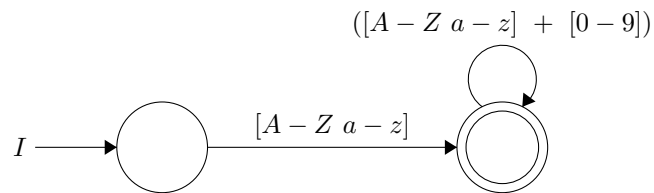
Letra:



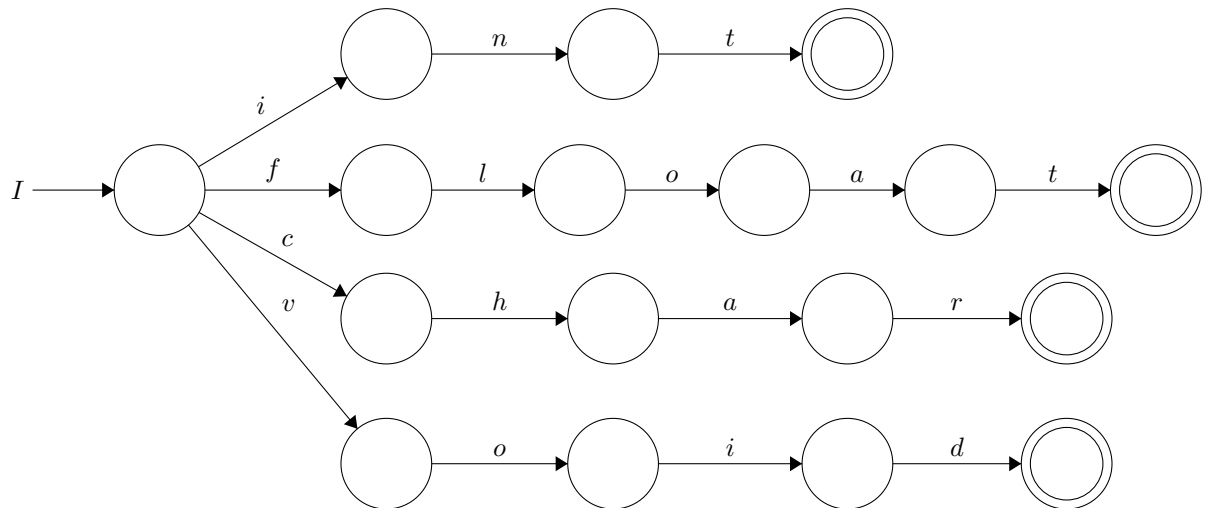
Número:



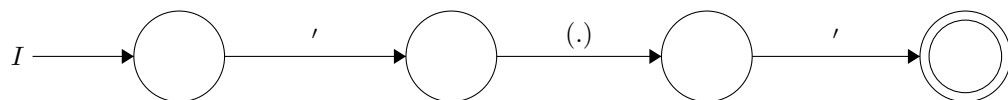
Identificador:



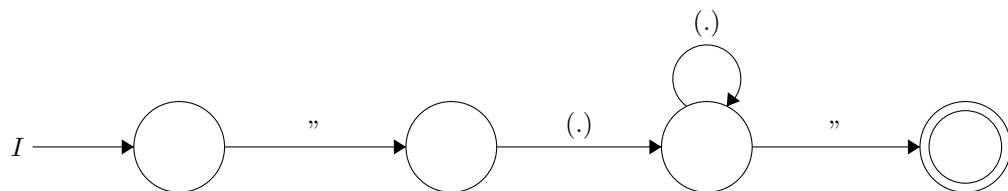
Tipo de dados:



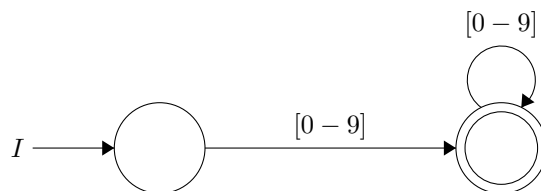
Caractere:



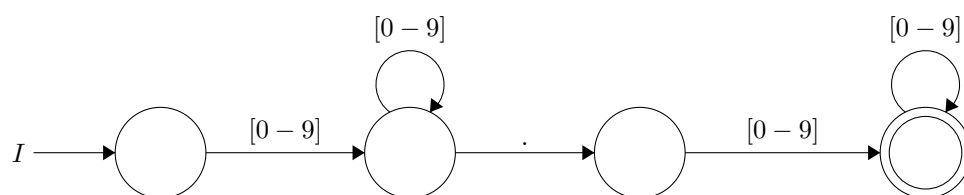
String:



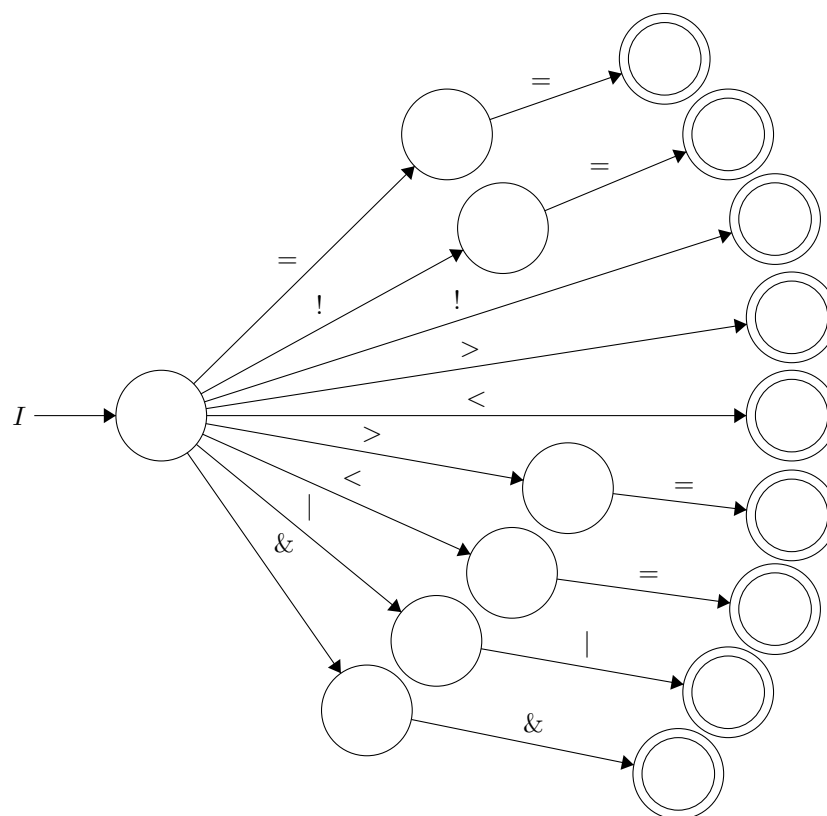
Inteiro literal:



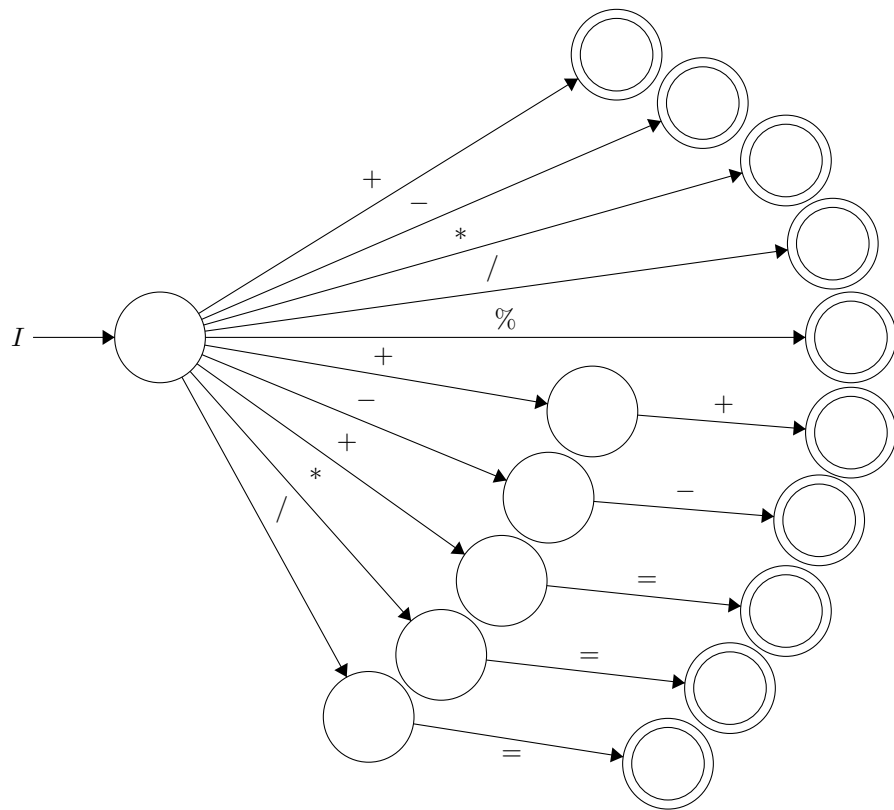
Ponto flutuante literal:



Operadores booleanos:



Operadores aritméticos:



Delimitadores:

