slang

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slang

A palavra *slang* significa gíria.

É uma linguagem engenhosa, cômica e divertida.

Overview

1. *program -> declare*
2. *begin ... end -> start ... finish*
3. Condition *do case*
    a. Antes: case number of
    b. Depois: case (number) of
4. (* comentário *) -> // comentário //
5. Condição de loop do for

```
START
    : S T A R T
    ;
```

```
compoundStatement
    : START statements FINISH
    ;
```

```
DECLARE
   : D E C L A R E
   ;
```

```
programHeading
   : DECLARE identifier (LPAREN identifierList RPAREN)? SEMI
   | UNIT identifier SEMI
   ;
```

```
caseStatement
   : CASE expression OF caseListElement (SEMI caseListElement)* (SEMI ELSE statements)? END
   ;
```

```
LPAREN
   : '('
   ;


RPAREN
   : ')'
   ;
```

```
caseStatement
   : CASE LPAREN expression RPAREN OF caseListElement (SEMI caseListElement)* (SEMI ELSE statements)? FINISH
   ;
```

```
COMMENT_1
   : '(*' .*? '*)' -> skip
   ;
```

```
COMMENT_1
   : '//' .*? '//' -> skip
   ;
```

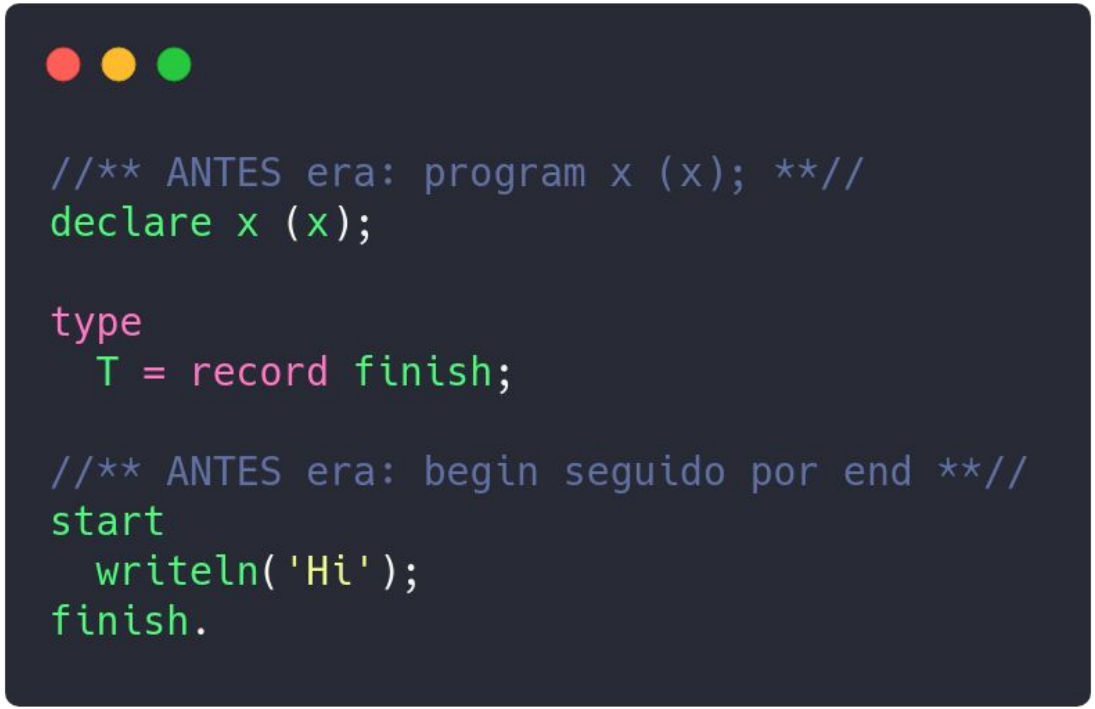
```
LPAREN
    : '('
    ;
```

```
forStatement
    : FOR LPAREN identifier ASSIGN forList RPAREN DO statement
    ;
```

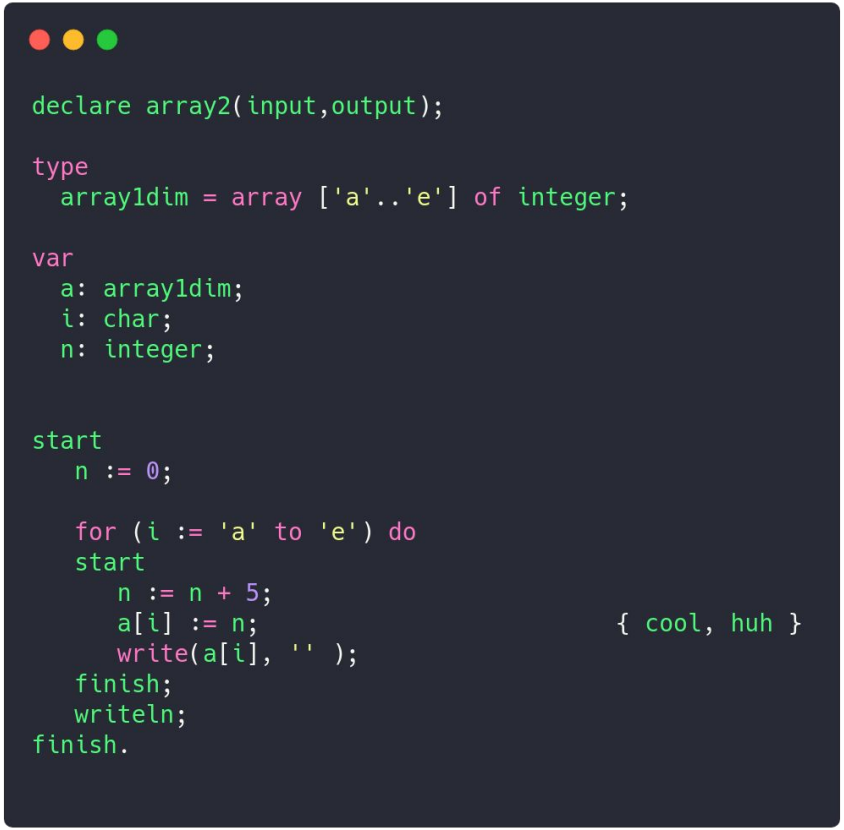

hello_word.slang
declare hellohorld;
start
write('Hello World.');
readln;
finish.

if.slang

```
var
   number: integer;


start
  writeln('Please enter an integer between 0 and 100');
  read(number);
  while (number < 0) or (number > 100) do start
     writeln('Try again please, integer between 0 and 100');
     read(number);
  finish;

  write('If this was a grade, you would receive a grade of:  ');
  if number >= 90 then
     write('A')
  else if number >= 80 then
     write('B')
  else if number >= 70 then
     write('C')
  else if number >= 60 then
     write('D')
  else
     write('F');
  writeln;
finish.
```



```
//** ANTES era: program x (x); **//
declare x (x);

type
  T = record finish;

//** ANTES era: begin seguido por end **//
start
  writeln('Hi');
finish.
```



```
declare array2(input,output);

type
  array1dim = array ['a'..'e'] of integer;

var
  a: array1dim;
  i: char;
  n: integer;


start
   n := 0;

   for (i := 'a' to 'e') do
   start
      n := n + 5;
      a[i] := n;                          { cool, huh }
      write(a[i], '' );
   finish;
   writeln;
finish.
```

```
const
  number = 5;

var
  result: integer;


function fact(n: integer): integer;
var
    i, answer: integer;

start
   fact := 1;
   answer := 1;
   if n > 1 then
      for (i := 2 to n) do
          answer := answer * i;
      fact := answer;
finish;

start                // main program //
   result := fact(number);
   writeln('Factorial of ', number, ' is ', result);
finish.
```