NOMES: GEOVANNA CRISTINE CORRÊA RIBEIRO (202010137),
LUANA ROZA DE OLIVEIRA (202010258)
CURSO: CIÊNCIA DA COMPUTAÇÃO
DISCIPLINA: COMPILADORES

==========

REGRAS DE PRODUÇÃO E PRIMITIVAS:

A: FO num {turtle.draw_segment (0, $num.value)}
B: BK num {turtle.draw_segment (180, $num.value)}
C: LT angle {turtle.draw_segment ($angle.value, $1)}
D: RT angle {turtle.draw_segment ($angle.value, $1)}
E: PD {turtle.set_draw (T)}
F: PU {turtle.set_draw (F)}
G: WC {turtle.clear()}
H: CS {turtle.clear()}
I: SETXY num num {turtle.set_position ($num.value, $num.value)}
J: HOME {turtle.home()}
K: XCOR {turtle.xcor}
L: YCOR {turtle.ycor}
M: HEADING {$angle.value, $0}
N: IF {turtle.set_IF(T)}
O: IF_ELSE {turtle.set_IF(T) or turtle.set_ELSE(F)}
P: WHILE: {turtle.end()}
Q: PRINT {turtle.date()}
R: TYPEIN {turtle.read()}
S: TO {turtle.new_primitive}
T: RANDOM {turtle.num_integer($0 a $9)}

```
TO SQUARE :num
        PD {turtle.set_draw (T)}
        FO :num {turtle.draw_segment ( 0, :$num.value)}
                RT 90 {turtle.draw_segment ( 90, $1)}
        FO :num {turtle.draw_segment ( 0, :$num.value)}
                RT 90 {turtle.draw_segment ( 90, $1)}
        FO :num {turtle.draw_segment ( 0, :$num.value)}
                RT 90 {turtle.draw_segment ( 90, $1)}
        FO :num {turtle.draw_segment ( 0, :$num.value)}
                RT 90 {turtle.draw_segment ( 90, $1)}
        PU {turtle.set_draw (F)}
END
```

```
TO HEX :num
    PD {turtle.set_draw (T)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    PU {turtle.set_draw (F)}
END

TO TRIANGLE :num
    PD {turtle.set_draw (T)}
        RT 60 {turtle.draw_segment ( 60, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 120 {turtle.draw_segment ( 120, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
        RT 120 {turtle.draw_segment ( 120, $1)}
    FO :num {turtle.draw_segment ( 0, :$num.value)}
    PU {turtle.set_draw (F)}
END

======================================================================

program A:
    SETXY 20 0 {turtle.set_position (20, 0)}
        PD {turtle.set_draw (T)}
        BK 50 {turtle.draw_segment (180, 50)}
        PU {turtle.set_draw (F)}
        FO 100 {turtle.draw_segment (0, 100)}
        PD {turtle.set_draw (T)}
        FO 50 {turtle.draw_segment (0, 50)}
        PU {turtle.set_draw (F)}
    SETXY 40 0 {turtle.set_position (40, 0)}
        PD {turtle.set_draw (T)}
        BK 50 {turtle.draw_segment (180, 50)}
        PU {turtle.set_draw (F)}
```

```
            FO 100 {turtle.draw_segment (0, 100)}
            PD {turtle.set_draw (T)}
            FO 50 {turtle.draw_segment (0, 50)}
            PU {turtle.set_draw (F)}
        SETXY 30 25 {turtle.set_position (30, 25)}
            PD {turtle.set_draw (T)}
            SQUARE 50
            LT 60
            SQUARE 50
            LT 60
            SQUARE 50
            LT 60                   // repeat 6 [
            SQUARE 50               // SQUARE 50
            LT 60                   // LT 60
            SQUARE 50               // ]
            LT 60
            SQUARE 50
            LT 60
            PU {turtle.set_draw (F)}
END
CS {turtle.clear()}

program B:
        PD {turtle.set_draw (T)}
        HEX 60
        PU {turtle.set_draw (F)}

END
WC {turtle.clear ()}

program C:
        PD {turtle.set_draw (T)}
        SQUARE 200
        SETXY 100 100 {turtle.set_position (100, 100)}
        TRIANGLE 150
        RT 60
        TRIANGLE 150                    // repeat 4 [
        RT 60                       // TRIANGLE 150
        TRIANGLE 150                    // RT 60
        RT 60                       // ]
        TRIANGLE 150
        RT 60
        PU {turtle.set_draw (F)}
```

END
CS {turtle.clear ()}

program D:
HEADING {$angle.value, $0}
SETXY 30 0 {turtle.set_position (30, 0)}
FO 100 {turtle.draw_segment (100, draw_segment(0, 100)}
PD {turtle.set_draw (T)}
SQUARE 200
TRIANGLE 120
RT 60
PU {turtle.set_draw (F)}
HOME {turtle.home()}

program E:
PD {turtle.set_draw (T)}
SQUARE 100
SETXY 50 50 {turtle.set_position (50, 50)}
FO 30 {turtle.draw_segment (0, 30)}
RT 60
BK 40 {turtle.draw_segment (180, 20)}
IF_ELSE {turtle.set_IF(T) or turtle.set_ELSE(F)}
RANDOM {turtle.num_integer($9)}
TYPEIN {turtle.read()}
PRINT {turtle.date()}