

$$\begin{array}{r}
 1010 \\
 1100 \\
 \hline
 10110 \\
 1 \\
 \hline
 0111 \rightarrow \\
 1100 \\
 \hline
 10011 \\
 1 \\
 \hline
 10100 \quad 4
 \end{array}
 \quad
 \begin{array}{r}
 1010 (10) \\
 0101 (5) \\
 \hline
 1010 (10) \\
 0011 (3) \\
 \hline
 0100 \\
 1100 \\
 \hline
 0000 \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 1010 \\
 1010 \\
 \hline
 10100 \\
 10101 \\
 \hline
 0001 \\
 1100 \\
 \hline
 1100
 \end{array}
 \quad
 \begin{array}{r}
 0101 \\
 1010 \\
 \hline
 1111 \\
 1 \\
 \hline
 0000
 \end{array}
 \quad
 \begin{array}{r}
 10-3=7 \\
 7-3=4 \\
 4-3=1
 \end{array}$$

3 resto 1

$$\begin{array}{r}
 10 \overline{) 3} \\
 9 \quad 3 \\
 \hline
 1
 \end{array}
 \quad
 1010$$

algoritmo

Inicio

IF (Denom. = 0) then {

ERR = 1 }

else {

x = num ...

Div = 0;

while (x ≥ Denom.) Do {

x = x - Denom

Div = Div + 1

}

Resto = x;

Fim.

$$\begin{array}{r}
 1010 (10) \\
 0011 (3) \\
 \hline
 \end{array}$$

$$x = 1010$$

$$10 > 3 \quad \checkmark$$

$$x = 10 - 3 = 7$$

$$Div = 1$$

$$x = 7 - 3 = 4$$

$$Div = 2$$

$$x = 4 - 3 = 1$$

$$Div = 3$$

$$1 > 3? \quad X$$

$$\begin{array}{r}
 10 \overline{) 3} \\
 9 \quad 3 \\
 \hline
 1
 \end{array}$$

$$Resto = 1$$

$$Resultado: Div = 3, Resto = 1 \quad \checkmark$$

Inicio

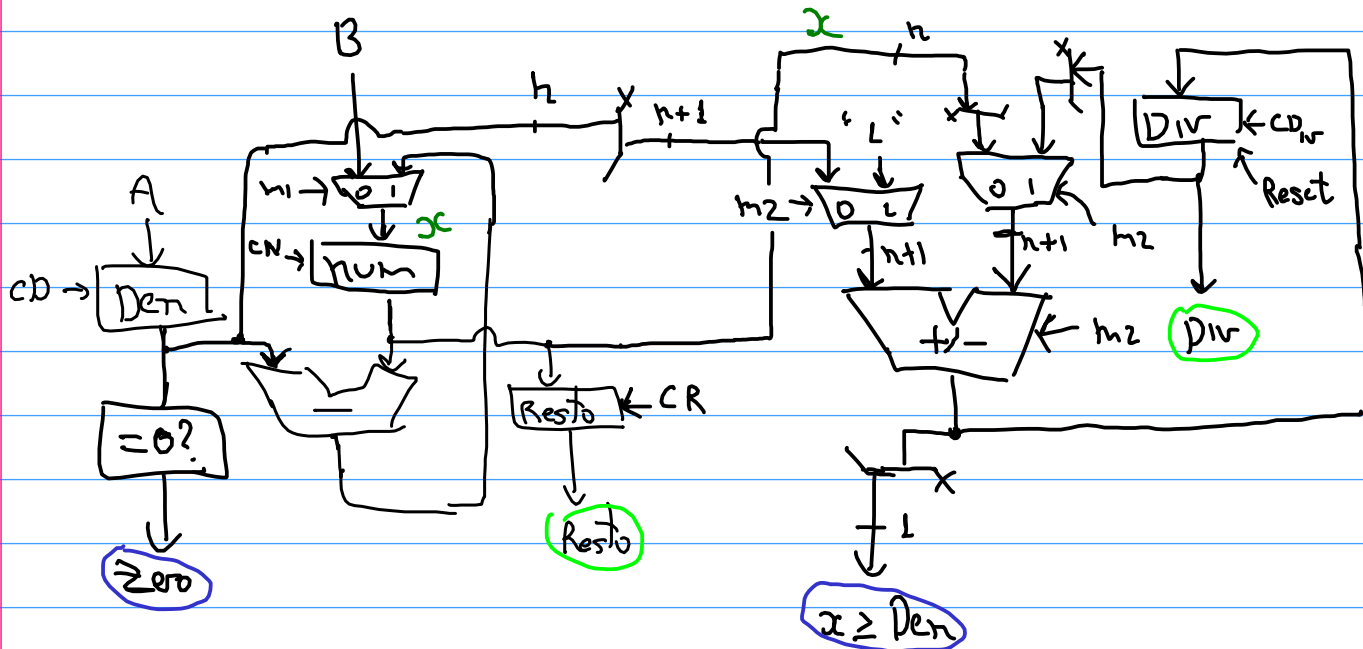
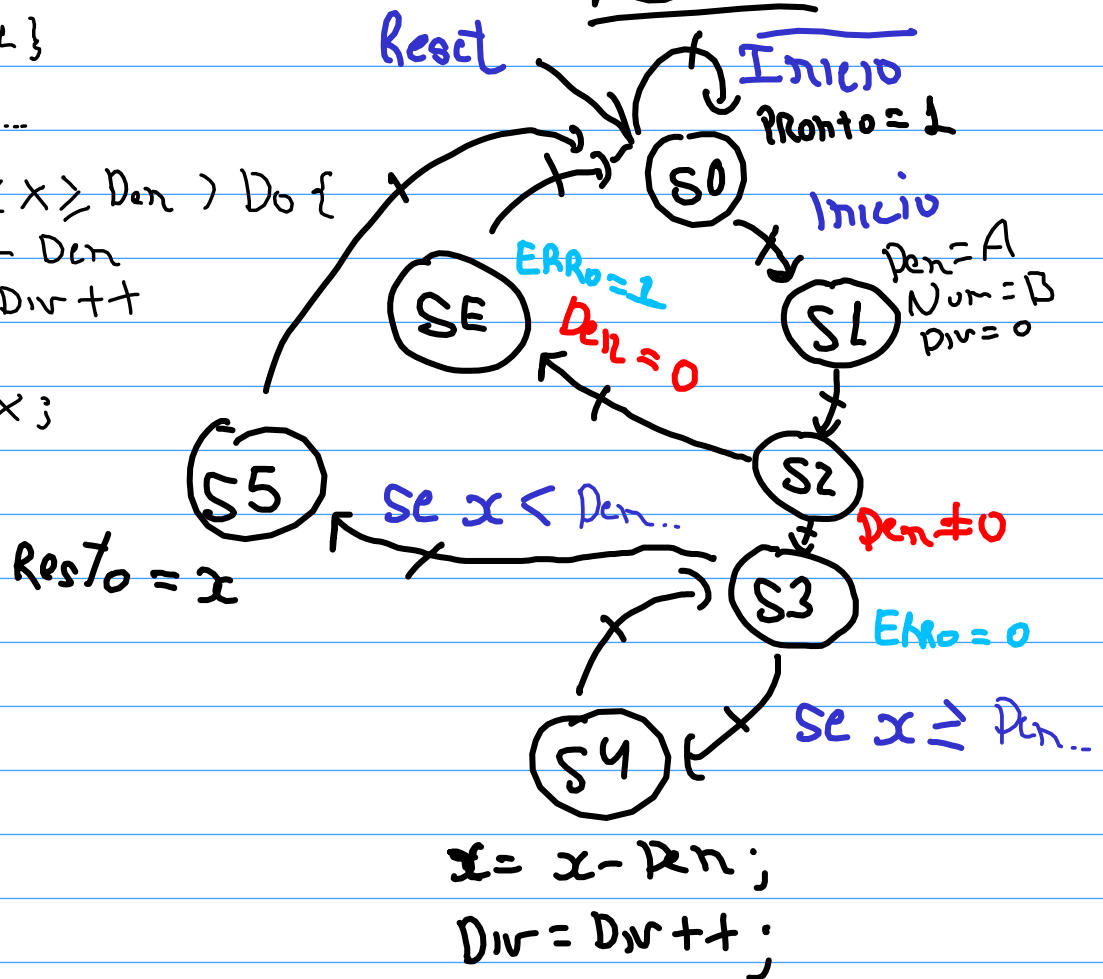
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IF( Deno.. = 0 ) then{
  ERRO = L }
else{
  x = num...
  Div = 0;
  while ( x ≥ Den ) Do {
    X = X - Den
    Div = Div ++
  }

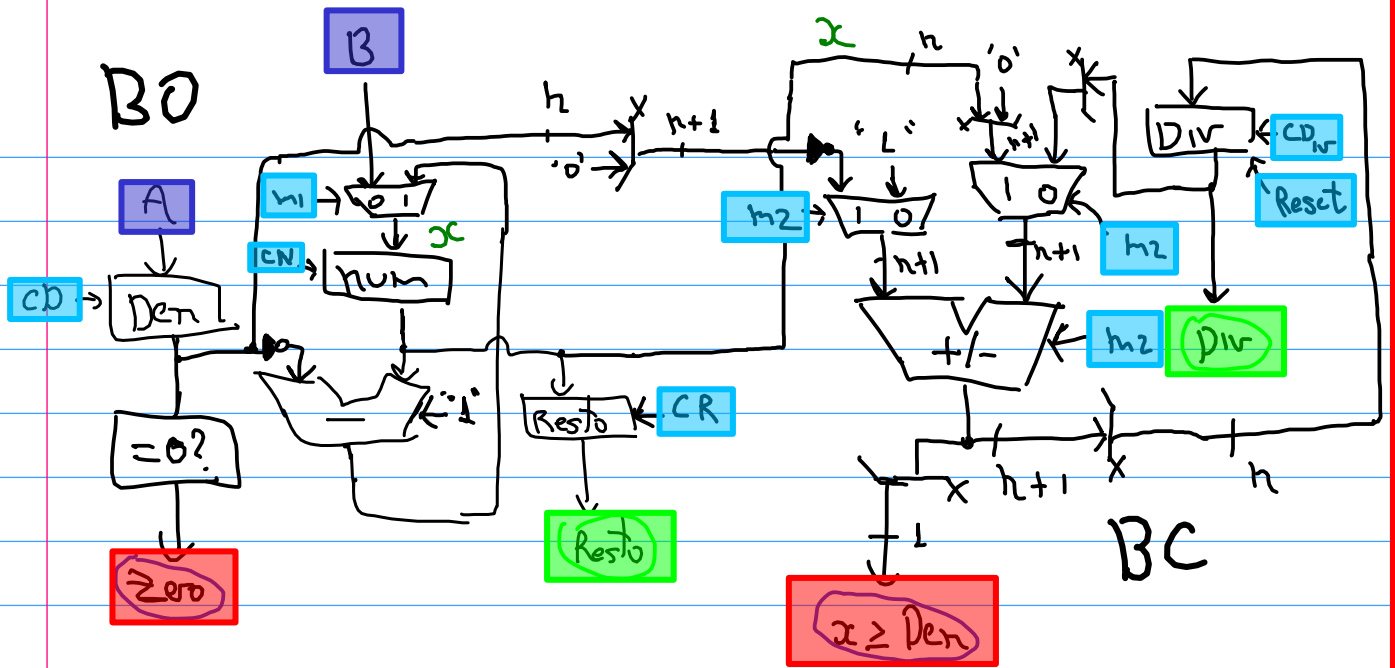
```

Resto = X;
Fim.

FSMD



B0



C PH PL RH RL 1013

0000 0011 0000 0000 1010

RH - PH

0000 0011 0000 ⁻³ 1101 1010 RH < PH
 Rest = 3

0000 0001 1000 0000 1010

RH - PH

0000 0001 1000 ⁻¹ 1111 1010 RH < PH

0000 0000 1100 0000 1010

PH = 0

PL RL 10 - 12 = -2

0000 0000 1100 0000 1010

RL - PL

0000 0000 1100 0000 1110 RL < PH

PL RL 10 - 6 = 4

0000 0000 0110 0000 1010

RL - PL 3 4

0001 0000 0011 0000 0100

RL - PL

0011 0000 0001 0000 0001

1013
 93
 01

DIV = 3 Rest = 1