

Universidad tecnica particular  
de Loja

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Asignatura: Fundamentos Computacionales

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Resolver los siguientes ejercicios

1)  $L_i$   $x = a^b + 1$

$a = 10$  determine  $x$ :  $x = 10^2 + 1$

$b = 2$   $x = 100 + 1$

$c = 1$   $x = 101 //$

2)  $L_i$   $x = a * b + 1$

$a = 10$  determine  $x$ :

$b = 2$   $x = 10 * 2 + 1$

$c = 1$   $x = 21 //$

3)  $L_i$   $x = (a * b + 1) <= 9$

$a = 10$

$b = 2$  determine  $x$   $x = (10 * 2 + 1) <= 9$

$c = 1$   $x = 21 <= 9$

$x = \text{false}$

4)  $L_i$   $x = x = (a * b + 1) <= 9$  and true or false

$a = 10$  determine  $x$   $x = (10 * 2 + 1) <= 9$  and true or false

$b = 2$   $x = 21 <= 9$  and true or false

$c = 1$   $x = \text{false and true or false}$

$x = \text{false or false}$

$x = \text{false}$



$$5) X = 10 * 2 + 1 * 10 - 1$$

$$X = 20 + (1 * 10) - 1$$

$$X = 20 + 10 - 1$$

$$X = 29 //$$

6)

$$a = \text{false} \quad X = a \text{ or } b \text{ and } c$$

$$b = \text{true} \quad X = \text{false or true and false}$$

$$c = \text{false} \quad X = \text{true and false}$$

$$X = \text{false} //$$

7)

$$a = \text{false}$$

$$X = ~~10 + 40~~ (10 * 1 - 2^4 2) \geq 10 \text{ and not (false or true and false)}$$

$$b = \text{true}$$

$$X = (10 - 4) \geq 10 \text{ and not false or true and false}$$

$$c = \text{false}$$

$$X = \text{false and not (false)}$$

$$X = \text{false and true}$$

$$X = \text{False} // = \text{False}$$

8)

$$a = \text{True}$$

$$X = ((a < > b) \text{ or } (a < = b))$$

$$b = \text{false}$$

$$X = ((\text{True} < > \text{false}) \text{ or } (\text{True} < = \text{false}))$$

$$X = \text{True or false}$$

$$X = \text{True} //$$

$$9) X = 20 + 40 \text{ Div } (10 * (4 \text{ Div } 2))$$

$$X = 20 + 40 \text{ Div } (10 * 2)$$

$$X = 20 + 40 \text{ Div } 20$$

$$X = 20 + 2$$

$$X = 22 //$$