

Krystal Education Platform
ERB002: Web Engineering Front-end Pt. 3

Assignment

4. JavaScript: Comparison and Logical Operators

Question 1: Write the expected value of x for the following.

`var x = 3; var y = 20;`

- a) `x += y;` 23
- b) `x *= y;` 60
- c) `y *= x;` 3
- d) `x %= y;` 3
- e) `x -= y;` -17

Question 2: Write the expected output for the following.

`var x = 30; y = "banana"; z = "40"`

- a) `typeof(x) == "number";` true
- b) `x === "30";` false
- c) `x != 30;` false
- d) `x !== "30";` true
- e) `y === "bana" + "na";` true
- f) `x + y !== "30banana";` false
- g) `typeof(z) == "String";` false, but true if change "String" to "string"
- h) `x <= z; t` true
- i) `y > z; t` true

Question 3: Order the following words in dictionary order.

- | | |
|--|---------------------------------------|
| a) lovely, dark, love, young, daring | daring, dark, love, lovely, young |
| b) dragon, near, needy, kneel, needs | dragon, kneel, near, needs, needy |
| c) random, mother, monster, neither, car | car, monster, mother, neither, random |

Question 4: Write the expected output for the following.

`var x = 10; var y = 20; var z = 50;`

- | | |
|---|-------|
| a) <code>x <= y && z > y;</code> | true |
| b) <code>x == y x < z;</code> | true |
| c) <code>!x <= z;</code> | true |
| d) <code>x < y && y < z && x > z; f</code> | false |
| e) <code>x < y && y < z x > z; t</code> | true |
| f) <code>x < y && (y < z x > z); t</code> | true |
| g) <code>(x > z z < y) (x < y && z > y); t</code> | true |



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Question 5: Fill in the following tables.

x	y	x && y
false	false	false
false	true	false
true	true	true

x	y	x y
true	false	true
false	false	false
true	true	true

x	!x
true	false
false	true