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Homework: /SI110/The Cyber Battlefield/Programs 1

For this assignment you are expected and encouraged to make use of the line-at-a-time Javascript interpreter: <http://rona.cs.usna.edu/~si110/resources/interpreter.html> (please don't use Explorer)

1. What is the value of x after each of the following sequence of statements are executed?

a. var x = 5;
var y = 3;
y = x;

5/4/3/0

value of x: _____

b. var x = 5;
var y = 3;
x = y;

5/4/3/0

value of x: _____

2. Consider the following two code snippets:

```
// Snippet A
var x = 7;
var y = x + x;
```

```
// Snippet B
var x = "7";
var y = x + x;
```

10/8/5/0

Explain why the value of y in Snippet A is 14 but in Snippet B it is 77.

3. Consider the following sequence of interpreter commands:

```
var t = 0;
var a = 3;
t = t + a;
t = t + a*a;
```

What is the value of t at this point?

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What is the value of t at this point?

What is the value of t at this point?

What is the value of t at this point?

4. These are string questions. You should try these expressions out in the interpreter!

a. The value of "look"+5*7+"out" is _____

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b. The value of "look\""+5*7+"\out" is _____

10/8/5/0

c. Why did the \ characters in **b** cause the output differences you observed in **b** vs. **a**

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5. What is wrong with the following sequence of statements:

```
var x = 5;  
x*x = x;
```

10/8/5/0

Note: You are strongly encouraged to actually enter these two statements (in order) into the interpreter (link given above).

6. The `typeof()` function returns a string that names the type of the function's argument (i.e. what was in parentheses). For the following questions, you are expected to actually use the javascript interpreter (URL above!) to evaluate expressions.

a. What is the value of `typeof("true")` ? Why?

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b. What is the value of `typeof(true)` ? Why isn't it the same as a.?

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c. What is the value of `typeof(12.5)` ? Why?

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d. What is the value of `typeof('12.5')` ? Why isn't it the same as c.?

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