CMSC330 Fall 2013 Quiz #1

Name _____

Discussion Time	9am	10am	11am	Noon	1pm
TA Name (circle):	Ilse	Daniel	Casey	Yoav	Ilse
	Richard	Richard	Richard		

Instructions

- Do not start this test until you are told to do so!
- You have 15 minutes for this quiz.
- This is a closed book exam. No notes or other aids are allowed.
- Answer essay questions concisely in 2-3 sentences. Longer answers are not needed.
- For partial credit, show all of your work and clearly indicate your answers.
- Write neatly. Credit cannot be given for illegible answers.
- 1. (6 pts) What is the output (if any) of the following Ruby programs? Write FAIL if code does not execute.

Output =

a. (2 pts)

```
a = "maryland terps"
if (a =~ /y+land$/)
    puts "Found one #{$1}"
else
    puts "Missed"
end
```

b. (2 pts)

```
b = { "John" => 10, "Mary" => 20} # Output =
puts b[10]
puts b["Mary"]
```

```
c. (2 pts)
```

2. (8 pts) Write a Ruby method *get_tag* that given a string *str*, uses regular expressions and back references to find and return a valid car tag. A valid car has has three lowercase characters, followed by dash (-), followed by three digits. For instance, get_tag("this is a tag akm-432 we use") should return "akm-432". The method will return "NoTag" if there are no tags in the input string.

def get_tag(str)

3. (6 pts) Write a Ruby method *square* that given an array of integers *int_values*, uses the Array.each method and a code block to print each array value and its square. For instance, given the array [3, 2, 6, 1], your code should print out the following:

39	Some helpful functions (not all need to be used)		
24	a.each { }	// apply code block to each element in array	
6 36	puts b	// print b followed by a newline	
11	c.to_s	// returns string for c	

def square(int_values)