

CMSC330 Spring 2012 Quiz #1

Name _____

Discussion Time	10am	11am	12pm	1pm	2pm
TA Name (circle):	Tammy	Tammy	Jane Tim	Jane 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.

a. (2 pts) a = "foodie" **# Output =**
 if a =~ /(o+)/ then
 puts \$1
 end

b. (2 pts) a = [] **# Output =**
 a["foo"] = "bar"
 puts a["foo"]

c. (2 pts) a = { } **# Output =**
 a["foo"] = "bar"
 puts a["foo"]
 puts a["bar"]

2. (8 pts) Write a Ruby method *extractNum* that given a string *str*, uses regular expressions and back references to print the first sequence of consecutive digits in the string. For instance, `extractNum("foo12bar154zed")` should print "12". Print "None" if there are no digits in the input string.

```
def extractNum(str)
```

```
end
```

3. (6 pts) Write a Ruby method *prtStrArray* that given an array of strings *strs*, uses the `Array.each` method and a code block to print out all the strings prefixed by "=". For instance, given the array ["foo", "bar"], your code should print out the following:

```
=foo  
=bar
```

```
def prtStrArray(strs)
```

Some helpful functions (not all need to be used)	
<code>a.size</code>	// number of elements in the array
<code>a.each { ... }</code>	// apply code block to each element in array

```
end
```