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”  
      if a =~ /(o+)/ then  
         puts $1  
      end  
   # Output = oo

   b. (2 pts)  
      a = []  
      a[“foo”] = “bar”  
      puts a[“foo”]  
   # Output = FAIL

   c. (2 pts)  
      a = {}  
      a[“foo”] = “bar”  
      puts a[“foo”]  
      puts a[“bar”]  
   # Output = bar  
              nil

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)
      if str =~ /([0-9]+)/ then
         OR if str =~ /\d+/ then
            puts $1
      else
         puts “None”
      end
   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)
      a.size // number of elements in the array
      a.each { … } // apply code block to each element in array
      strs.each { |x| puts “=#{x}” }
   OR strs.each { |x| puts “=”+x }
   end