CMSC330 Spring 2023 Quiz 1

Proctoring TA:		Name:	
UID:			
Problem 1: Basics			[Total 5 pts]
Please circle True or False for the following statement Ruby uses a static type system	s: True	False	
Procs and Codeblocks can be used interchangeably	True	False	
nil is not an object in Ruby	True	False	
In Ruby, types are associated with values	True	False	
Ruby has built in support for Regular Expressions	True	False	
Problem 2: Code Completion			[Total 10 pts]
Fill in the blanks of the following code so that is has the desired output (a) Higher Order Programming			[4 pts]
Fill in the blanks so 10 is printed. You cannot hard coo	de blank	a 1 or blank 2. You must use x and the codeblock.	
<pre>def myfunc(x) putsBLANK_1 end</pre>			
myfunc(3){BLANK_2}			
blank 1:			
Blank 2:			
(b) Creation			[2 pts]
Fill in the blanks so that a is a Hash with a default val	ue of an	Array of size 3	
a =blank_1			
Blank 1:			

3

```
(c) Objects
                                                                                                             [2 pts]
Fill in the blank so that square has a class variable called length with the value of x
class Square
    def initialize(x)
         __Blank_1__
    end
end
Blank 1:
   (d) Regex
                                                                                                             [2 pts]
Fill in the blanks so that "Correct" is printed
rxp = /__Blank_1___/
line1 = "23 years of age"
line2 = "1 year of age"
if rxp =~ line1 && rxp =~ line2
    puts "Correct"
else
    puts "Failed"
Blank 1:
```

Problem 3: Coding [Total 5 pts]

Write a method named procHash(hash). The argument hash is a hash from a numerical key to a Proc. For each key and proc pair, print out "RESULT is the result of Proc(KEY)" where KEY is the key and RESULT is the result of calling the proc associated with the key on said key.

Example:

```
procHash(\{1=>Proc.new\{|x| x*2\}, 2=>Proc.new\{|x| x+3\}\}) prints out 2 is the result of Proc(1) 5 is the result of Proc(2)
```