CS142 HW-2

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**Homework Assignment #2, CSC142, Spring 2018**

1.) Which of the following are legal Java identifiers?

a.) 4Bfort$

b.) B\_Fort$

c.) $\_4

d.) B-b34

e.) For Honor

2.) What is the Java convention for capitalizing an identifier if:

a.) It is a class name –

→ starts with uppercase, usually noun

b.) It is an object name-

→ starts with lowercase, usually noun

c.) It is a method name-

→ starts with lowercase, generally verb

d.) It is a package name-

→ All lowercase

e.) It is a constant name -

→ All uppercase with \_ between words

3.) How many objects can be created from a class? Is there a limit?

→ No limit.

4.) Can you include comment markers inside another comment? Show one situation where you cannot.

→ In general, you can yes. One situation you cannot is nesting comment tag:

// /\*

Above, the open comment tag (/\*) is commented out by the line comment tag (//) and so would be ignored by the compiler.

5.) What is the difference between a .java source file and a .class bytecode file?

→ A .java source file is a human-readable document, while the .class bytecode is a compiled machine-read document.

6.) Which of these names violate the naming convention (capitalization) for object names?

a.) ThisIsOkay

b.) notOkay

c.) ReallyOk

d.) notSoMuchOk

e.) java

f.) savingsAccount

7.) Show a state-of-memory diagram after the following statements are executed:

JFrame window1;

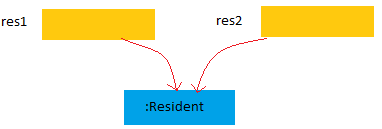
Resident res1, res2;

window1 = new JFrame;

res1 = new Resident();

res2 = new Resident();

res1 = res2;

→ 

8.) What method must be included in any standalone java application?

→ main

9.) For each expression, determine its result. Assume you have a string named str as below:

String str = “EenyMeenyMineyMoe”;

a.) str.substring(0,6);

→ EenyMe

b.) str.length();

→ 17

c.) str.indexOf(“ee”);

→ 5

d.) str.indexOf(“e”);

→ 1

e.) str.substring(8, str.length()-1);

→ yMineyMo