

CS142 HW-2 Sp 2018

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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?

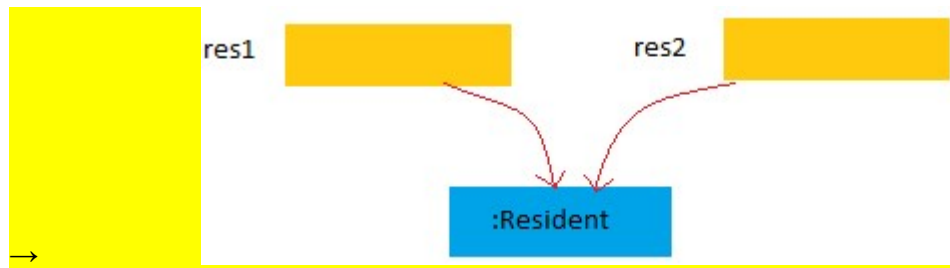
→ A .java source file is a human-readable document, while the .class bytecode is a compiled machine-read document.

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