**CPSC 501-01  
Jonathan Hudson – Fall 2019**

**Assignment 2**

**Refactorings**

**By**

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This is a public git & can be viewed on GitHub: <https://github.com/DalBrar/CPSC501-A2-Reflection>

**Variable Rename:**  
 Renamed String name to String title as I was adding modifiers and parents to the name string which didn’t make sense for its name. Adding those things to a title made more sense.

**Extract Method:**  
 Extracted getSuperClass(Class) from Inspector.inspectClass().  
 Extracted getInterfaces(Class) from Inspector.inspectClass().  
 Extracted getConstructors(Class, String) from ^.  
 Extracted getParameters(Executable) from getConstructors(Class).

**Extracted duplicate code into a method:**  
 getSuperClass() & getInterfaces() both used the same code to make  
 a recursive call so I extracted the following method:

private static void recurseOnClass(Class<?> c, boolean recursive, int depth) {

try

{

Object obj = null;

if (!c.isInterface() && !Modifier.isAbstract(c.getModifiers()))

obj = c.getConstructor().newInstance();

inspectClass(c, obj, recursive, depth+1);

}

catch (InstantiationException | IllegalAccessException |  
 IllegalArgumentException | InvocationTargetException |  
 NoSuchMethodException | SecurityException | NullPointerException e)

{

e.printStackTrace();

}

}