## CPSC 501 – Assignment 2

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#### **Overview**

ObjectInspector is a reflective object inspector. It performs complete object inspection at a runtime. Inspector handles the object inspection. General project setup is described in project README.md.

### Refactoring

Some refactoring was done to the project after the working version was implemented. The following is the list of commits with description of what refactoring was done

# Implement InspectorResult to store inspected information; Implement FieldPair to make it easier to test object inspection e9870e19, d6a2812c

It was necessary to implement some sort of storage for object inspection in order to test the Inspector#inspect(Object, boolean) properly. InspectorResult contains different HashMaps to store inspected information about object. Using that class, we can test the inspect method without having to compare outputs.

### Use IndentedOutput interface and use custom for Each to iterate array (645bfdce)

Since the output needs to be indented in order to make it easier to read and to say which values are nested, <a href="IndentedOutput">IndentedOutput</a> and method <a href="indentOutput">indentOutput</a> helps to achive that result. Originally, indentation was calculated per each <a href="inspect">inspect</a> method. To remove duplicated code, <a href="indentOutput">indentOutput</a> method was added.

## Extract value inspection into its own method (c039ea3e)

inspectArray and inspectField were performing the same tasks, therefore to eliminate redundant code, inspectValues method was added.

# **Git Log**

5ec816d         Artem Golovin         Initial commit           788ddbb         Artem Golovin         Add option to output inspection results in std out           c84133d         Artem Golovin         Implement inspectSuperclass method and add function for padded output           bff1f6f         Artem Golovin         Implement inspectInterfaces method           67279bd         Artem Golovin         Implement inspectConstructor method           5a3c07a         Artem Golovin         Implement inspectMethod method           7f2db0a         Artem Golovin         Implement inspectFields and inspectArray           deb1f1d         Artem Golovin         Add basic README, move test classes to data package and create inspector package           afce1c3         Artem Golovin         Add step to inspect array object           2ad8560         Artem Golovin         Change newline characters           7db97f7         Artem Golovin         Add util join method and rename Console to Utils           3ab0166         Artem Golovin         Store inspected objects in HashMap's for testing and add simple tests           540bb7a         awave1         Inspect methods and fields when inspecting interfaces instead of inspecting class           b73d7e6         Artem Golovin         Add InspectorResult object to store results of object inspection           d6a2812         awave1         Add Insp	Commit	Author	Description
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	992de84	Artem Golovin	Turn off std output when running tests

c039ea3	Artem Golovin	Add array tests and move inspectValues to its own method to prevent
		duplicate code
5a60494	Artem Golovin	Include object inspection before inspecting array objects
5e47e8d	Artem Golovin	Move leftpad methods to Console util class
66343ed	Artem Golovin	add primitive args handling
645bfdc	Artem Golovin	Use IndentedOutput interface and use custom forEach to iterate ar-
		ray objects
c0fa48b	Artem Golovin	Add tests for class with constructors and fix addConstructor method
bff6ce3	Artem Golovin	Turn off std output for unit tests
2ce2c5c	Artem Golovin	Fix cli args and make directories to store scripts
ec35706	Artem Golovin	Implement simple dynamic inspector loader
f156f9b	Artem Golovin	Move class loading into InspectorLoader
04db097	Artem Golovin	use java 1.8
5d8eaef	Artem Golovin	update scripts for java 1.8
9e0bc12	Artem Golovin	set recursive to true by default