

### CPSC 233 – Team Assignment 3 – Requirements

As a team, complete a solution for the individual assignment that you'll use for your team submission. (No additional code is required.) Then use this solution to

1. Provide a trace of the code that would be run when you execute the class Bank provided below. You can run Bank to verify your trace. A trace should show clearly program output, when objects are created and the state (value of instance variables) of all objects after each statement. Just providing program output is NOT sufficient!
2. Identify five methods/constructors in your BankAccount class that have potential privacy leaks. Look for methods that take object reference as arguments or that return object references. Also look for methods that modify an instance variable that holds an object reference. Explain why the method creates a privacy leak.

#### Rubric

	2 marks	1 mark	0 marks
Functionality	All tests in BankAccountIA3Test and CustomerIA3Test pass.		One or more tests fail.
Design, Legibility and Documentation	There is no code duplication. Constructors use 'this' where appropriate. Instance variables are private. Methods are public. Code is easy to read and well documented (use Javadoc and in-line documentation appropriately).	Some code duplication or access is public when it should be private. Some improvement possible but overall code is legible and documented.	Some code duplication and some incorrect access modifiers or code is difficult to read or documentation is missing.
Trace	Trace is accurate (it shows the program output correctly) and clearly shows, for each statement, all objects that exist and their state.	Trace is accurate but it is not always clear which objects exist or what the state is of some objects.	Trace is inaccurate or does not show objects and their state.
ID of privacy leaks	Correctly IDd all five privacy leaks in BankAccount and clearly explained why the method created a privacy leak.	Correctly IDd all five privacy leaks but not all explanations are clear, OR, IDd most privacy leaks with clear explanations but missed one or two.	Missed most privacy leaks or explanations are missing.