CSIS 658 Spring 2012
Software Testing and Maintenance
Bowring

Term Project

Goal: To choose a class with at least 5 methods from the Java language code base (see http://openjdk.java.net/) and build an automated testing harness to test this class. Test cases will be developed from various functional and structural criteria we have addressed in the course. The testing harness will consist of a directory structure and script(s) that will be executed from the command line. You may work individually or in teams.

Deliverable #1: Produce a test plan (see here) that details how you will proceed. In addition, these are topics to include: choice of class with listing or link; specific functional and structural coverage criteria and their application; specifics of how test cases are generated to comply with these criteria; a template for recording each test case (see below); the test cases themselves according to the template (i.e., a set of .txt files).

Template should include instructions for creating a test case file that conforms to the template:
1. test number or ID
2. requirement(s) being tested
3. testing target
4. the relative path to the file your script will execute to perform the test case
5. the input(s) for the test case or a path to the file that contains the inputs
6. the expected outcome for the test case or a path to a file containing the oracle

In future deliverables, expect that your script will process on or many test case files, run the tests, collect the results, and produce an html report that opens in a browser.

Submit your work as a single PDF file: [lastName]_Delivrable1.pdf by 5PM 3.April.2012.