

|                         |   |   |   |   |   |
|-------------------------|---|---|---|---|---|
| Classes                 | 1. XValueFinder   |   |   |   |   |
|                         | 2. WebController  |   |   |   |   |
|                         | 3. WebApp   |   |   |   |   |
|                         | 4. ConsoleApp   |   |   |   |   |
|                         |   |   |   |   |   |
|                         |   | 1 | 2 | 3 | 4 |
| Complete                | Verify the code covers all the design                               | x | x | x | x |
| Initialization          | - All global variables initialized in constructor                   | x | - | - | - |
|                         | - All local variables initialized before used                       | x | x | x | x |
|                         | - Variables are initialized outside loops                           | x | - | x | - |
| Exceptions              | - All possible exceptions are caught                                | x | x | x | x |
|                         | - Methods launch specific exceptions                                | x | x | x | x |
|                         | - Specific exceptions are caught                                    | x | - | x | x |
| Names                   | - Name spelling and use: Is it consistent?                          | x | x | x | x |
|                         | - Verify the names of artifacts complies with coding standard       | x | x | x | x |
| Loops                   | - Verify there are no "infinite" loops                              | x | - | - | - |
|                         | - There are no more than 2 nested loops                             | x | - | - | - |
| Variables               | - The variables comply with the coding standard                     | x | x | x | x |
| Brackets                | - Ensure that brackets are properly matched (), [], {}              | x | x | x | x |
| Logic Operators         | - Verify proper use of ==, !=,    and so on.                        | x | - | - | - |
|                         | - Check every logic function for if, else if, switch, for and so on | x | - | - | - |
|                         | - No operators used to imply verification forcing, like & and       | - | - | - | - |
| Line-By-Line check      | - Check every line of code for instruction syntax                   | x | x | x | x |
|                         | - Check every line of code for proper punctuation                   | x | x | x | x |
| Standards               | Ensure the code conforms to the coding standards                    | x | x | x | x |
| Stream Open and Closing | - All streams are properly declared                                 | - | x | - | x |
|                         | - All streams are properly opened and closed                        | - | x | - | x |
| Connections             | - All open connection is closed                                     | - | - | - | - |
|                         | - No connections are opened inside loops                            | - | - | - | - |