## Assignment C - Java implementation of DFA

Develop a Java implementation of the DFA class that exactly matches this [posted API](http://jodypaul.com/cs/theory/DFAjava/DFA.html). Note that this class must reside in the unnamed package, thus you must not use a package statement.

There is no user interface to this class. All access is via the specified public methods. Note in particular that System.out, System.err, and System.in must not be directly accessed by your program. Also note that there is no method with signature public static void main.

Your implementation must utilize the State class as defined in [this API](http://jodypaul.com/cs/theory/DFAjava/State.html).

For your convenience, I have provided Java [source code](https://gouda.msudenver.edu/moodle/mod/book/view.php?id=8937) for supporting and test classes. You should feel free to use this sample implementation of [State.java](https://gouda.msudenver.edu/moodle/mod/book/view.php?id=8937&chapterid=89) while developing your DFA class. Unit test classes [StateTest.java](https://gouda.msudenver.edu/moodle/mod/book/view.php?id=8937&chapterid=90) and [DFATest.java](https://gouda.msudenver.edu/moodle/mod/book/view.php?id=8937&chapterid=91) utilize the [JUnit](http://junit.org/) testing framework. (For those familiar with the Java **assert** mechanism, [DFANonJUnitTest.java](https://gouda.msudenver.edu/moodle/mod/book/view.php?id=8937&chapterid=92) defines a more limited test class for DFA that utilizes Java's assert rather than JUnit.) I have also provided a [full set of javadocs](http://jodypaul.com/cs/theory/DFAjava/).

For this assignment, you must submit one file named exactly DFA.java containing the source code for an implementation of the DFA class.

Submitted code must compile without error and exactly match the [specified public API](http://jodypaul.com/cs/theory/DFAjava/DFA.html).

Submitted code is expected to be well-documented using [Javadoc](http://www.oracle.com/technetwork/java/javase/documentation/index-jsp-135444.html) comments and tags. The class-level documentation must include @author and @version tags. The method-level documentation must use @param and @return tags as appropriate.

Assessment will consider correctness and readability.

You must also submit "Online text" that provides a reflection addressing insights and learning associated with your experience working on this assignment.

#### Submission Summary

Java source code file: DFA.java

Online text: Reflection