

## Project Stage 8: File I/O

You must *work by yourself* on this stage. Implement the remaining methods in **BibleIO**. You do not need to incorporate the additions into the GUI yet.

### Details

1. Implement the remaining unimplemented methods in **BibleIO**. See the comments in the file for more details and look at **asv.xmv** to figure out how to parse the file. Make sure you look at the Psalms since they have an added complication.
2. The application should still start by just reading in the KJV automatically.
3. Obtain and run the Stage 8 test.
4. Create **MyGrade\_P8.txt** (copy it from a previous one) and fill in your actual time spent and expected grade and include a brief justification of your expected grade.
5. Submit just **BibleIO.java** and **MyGrade\_P8.txt** using Handin under assignment **235-P8**.
6. Grades will be based on passing the tests and how you implemented the methods in **BibleIO**.

### Hints/Notes

- The amount of code you need to write for this stage is not extensive, but parsing the XMV file format will require some thought on your part so make sure you *start early*.
- You can parse the file by either learning more about how to use regular expressions or by using a method like **startsWith** on Strings (which is how I did it).
- You should *trim* the text when you read it in. This is particularly important for the ASV version since many of the verses have 1 or 2 spaces at the end that you might not expect and they throw the tests off.
- You can safely ignore the *Titles* for the Psalms if you wish. (This is relevant for the XMV version of the ASV.)
- At this point you don't need to change the application to read a different file. We'll get to that soon.