



Program Requirements (and how they were met):

- Project must be committed and pushed up to GitHub
 - This project was pushed to my GitHub main branch of Bell Choir:
<https://github.com/codegard4/BellChoir>
- Must use ANT to build/run
 - From the terminal running `ant run` will play two separate songs and provide error checking output.
- Each Member must play each assigned note in a separate thread
 - The member class was created with one thread each that plays one note at a time.
- The assignment must be able to play the instructor provided song 'Mary Had a Little Lamb' with the sound output being properly recognizable with appropriate timing.
 - The main method of the "Conductor" class loads and plays Mary Had a Little Lamb from a text file.
- Student provided songs may be provided as additional song files to other students for testing/validation.
 - My song Seven Nation Army is in the songs/ folder in the GitHub repository
- Improper song files **will** be provided during the final instructor demonstration to determine how well the program behaves when given invalid data
 - Conductor's "loadSong()" method checks all lines of input files and if there are any errors it keeps track of the errors and prints them to the screen. Any errors in a file will automatically invalidate it, including unrecognized timing, notes, and extra text on a line.

Challenges Faced:

This project was easier after completing the JuiceBottler lab, which had a similar layout thread-wise. The hardest parts of the lab were

- Creating a new song, which took a lot of trial and error
- Choosing a good way to store the choir members and notes—there was obviously more than one way to do this but there were also more and less efficient ways to do it
- Getting notes to run without a long, awkward pause – I had `line.drain()` in the wrong spot