CS 242 Final Project

Week 0

Manual Test Plan

1. Download the source files and open them in an IDE (e.g. Eclipse).
2. Use the test file in the main method or select your own music file.

```
public static void main(String[] args) {
    MusicReader mr = new MusicReader();
    RhythmEvent[] eventArray = mr.extractMidiInformation(new File("taxi.mid"));
    mr.playFile(eventArray);
}
```

   In order to use your own mp3 files, use http://www.ofoct.com/audio-converter/convert-wav-or-mp3-ogg-aac-wma-to-midi.html or a MP3 to MIDI converter of your choice.
3. Run the program. The output should progress according to the timestamps. Compare with the music and note that the high notes of the song correspond to the peak velocities of the output. Using the test file “taxi.mid”, note that the four triplet beats in the song at around 0.5s, 2.5s, 4.5s and 6.0s are represented in the output, with significantly higher velocity than the surrounding notes. See the image below:

```
Note with velocity 29 at time 0.2
Note with velocity 41 at time 0.7
Note with velocity 46 at time 1.2
Note with velocity 37 at time 1.7000000000000004
Note with velocity 36 at time 1.8000000000000005
Note with velocity 26 at time 1.9000000000000006
Note with velocity 28 at time 2.0000000000000004
Note with velocity 32 at time 2.1000000000000006
Note with velocity 47 at time 2.600000000000001
Note with velocity 40 at time 3.1000000000000014
Note with velocity 30 at time 3.600000000000002
Note with velocity 32 at time 3.800000000000002
Note with velocity 33 at time 3.900000000000002
Note with velocity 31 at time 4.000000000000002
Note with velocity 38 at time 4.100000000000001
Note with velocity 48 at time 4.6
Note with velocity 45 at time 5.099999999999998
Note with velocity 43 at time 5.599999999999996
Note with velocity 39 at time 5.699999999999996
Note with velocity 36 at time 5.899999999999995
Note with velocity 41 at time 6.099999999999994
Note with velocity 45 at time 6.5999999999999925
Note with velocity 48 at time 7.099999999999991
Note with velocity 21 at time 7.19999999999999
Note with velocity 78 at time 7.29999999999999
Note with velocity 91 at time 7.39999999999999
Note with velocity 43 at time 7.799999999999988
Note with velocity 95 at time 7.899999999999988
Note with velocity 40 at time 8.099999999999987
Note with velocity 46 at time 8.199999999999987
Note with velocity 85 at time 8.299999999999986
Note with velocity 90 at time 8.399999999999986
Note with velocity 49 at time 8.599999999999985
Note with velocity 44 at time 8.799999999999985
Note with velocity 94 at time 8.899999999999984
Note with velocity 65 at time 9.099999999999984
Note with velocity 52 at time 9.299999999999983
Song over!
```