You shall submit a zipped, and only zipped, archive of your homework directory, hw1. The directory shall contain, at a minimum, the file parse\_score.cc.

I will use my own makefile to make your parse\_score.cc file. Do not use a header for this assignment. My grader will not look for one.

I have a large amount of text data with student scores stored as series of integers and floating point values. I would like to read that data in JSON format.

Given the format: number\_of\_students student\_id number\_of\_grades grade\_0 grade\_1 grade\_n

Read in each of the number\_of\_students students and write their id and number\_of\_grades grades to the standard output stream as indicated in the provided source code.

The application should perform as follows:

- The program is called and and is run with no prompt for input:
  - ./parse\_source
- The program reads from the standard input stream a series of characters in the indicated format e.g.

```
2\ 1234\ 3\ 98.7\ 87.92\ 77.32\ 2345\ 3\ 93.1\ 90.23\ 81.21
```

and parses the values as indicated in the given source file:

- I have provided you a basic test app which you can use to ensure that your code is somewhat passing. I do not test the individual values of "id" and "grade", but I will in my full tester. This means that, while you could only print the "max\_id" and "max\_score" to pass the provided tester, you will not pass my full tester.
- If you are having problems getting valid JSON, copy the output from your program and try a JSON validator such as: https://jsonformatter.curiousconcept.com/

I have provided you source for parse\_scores app and a make file. In addition, I have given you a python script to test your app. You should definitely read the makefile and I would encourage you to read the python. It is simple code and an easy intro to python.

Late assignments will lose 25% per day late, with no assignment begin accepted after 4 days (100% reduction in points).

Check your syllabus for the breakdown of grading.