Assignment #6

Eric Rouse; Individual Programming 53

Understanding the Problem

Write a class that reads in a file of golf scores of N players. When the scores are read in, calculate each players amount over or under par and print a table of the results.

Devising a Plan/Design

Here is the pseudocode that I came up with.

Create a file object and use it to read in the golf scores file.
Save the first line as the number of golfers. Use this number to create an array of players.
Read the next lines one integer at a time and add them up.
Store each sum in an array to be used for the print message. Start the array at 1 instead of 0 since the first player is Player1 not Player0. Use the 0 index of the array for the par values. This makes it easy to reference scores to Players.
Iterate through the players printing each results.
Sort through the players to find the lowest score and set that player as the winner.

Error Handling:

Make sure the data is formatted correctly. If at any time the file has unexpected data, print an error and quit the program.

Looking Back/Self-Reflection

I liked this assignment more than any of the others. Pure data parsing. Much more fun that getting a bunch of inputs from a user. I learned about reading from a file using the different methods of the file/scanner class. Especially nextInt(). I checked the code by configuring different files and running the code on them.