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CS161 – Assignment #6/Quiz #12
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Q1: Write the pseudocode for the algorithm you are going to use to determine which golfer won the game and to calculate how well each golfer did compared to par.

1. For each golfer subtract par from their score on every hole. Iterate through all golfers and all holes. This is the normalized hole score.
2. For each golfer add up the total normalized score for each hole. This is their score over or under par.

Q2: Describe how your algorithm would change if you allowed for an arbitrary number of holes.

It wouldn't change at all actually. I use the length of the array to stop my iterations. I would have to change how that number is determined however. Right now it is a final value. I would have to read through the file and see how many lines have the data on them to determine number of holes. This I would use to set up my arrays.

Q3: Describe how your algorithm would change and the steps you would have to take to determine the number of players, if you didn't store the number in the file or prompt the user for the number of golfers.

I would read in the file and count the number of columns in the first row using a while(input.hasNextInt()) and incrementing a counter. (This is assuming the first row isn't used to store N anymore).