Program Design Document Spring, 2017

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CS155 – Section 01

Project #6 – March Madness

Due: Tuesday, March 21, 2017

**Program Requirements:**

This program will take input from a user save information to a file and then display the attempts, makes and the % made.

**Program Inputs:**

One letter (char)

**Program Outputs:**

One text file containing Information entered (String), makes and attempts of free throws, two pointers and three pointers ( integer), % made (double).

**Solution Overview:**

The program will begin by showing the user the inputs they can use to add makes and misses for different scores.

The inputs will be in a loop until the user enters ‘Q’.

Each time the user inputs an option it will be written to the file as the type of shot and whether it was made or missed.

After the user enters ‘Q’, the file will be written with the makes, attempts and % made for each shot and finally a total calculation of points scored.

**Algorithm Flowchart:**



**Test Plan:**

Thirteen test cases will be run.

1. F, F, F, Q
2. X, X, Q
3. G, G, Q
4. Y, Y, Q
5. T, T, Q
6. Z, Z, Q
7. Q
8. P, Q
9. F, F, X, Q
10. G, G, Y, Q
11. T, T, Z, Q
12. F, X, X, X, Q
13. F, F, G, G, Y, Y, X, Z, T, Q