**Program 506W**

**(Softball Teams)**

**Program Description:**

Read from the data file. The first element tells you how many teams are in the data file. The next String gives the name of the team. Then the next number in the file tells you how many players are on that team and this is followed by the team. For each Player, the first two elements are strings, the first and the last name. This is following by 12 ints and they are the number of at bats, the number of walks, the number of hit by pitches, the number of sacrifices, the number of hits, the number of singles, the number of doubles, the number of triples, the number of home runs for offense. Then the defensive stats, the number of assists, the number of putouts and then the number of errors. This is repeated for the number of teams that will be in the data file.

You are to use the player, offense and defense classes that were created for 506T.

The program should report:

A: The team with the most hits.

B: The two players with the highest batting average and which team they play for.

C: The two players with the worst fielding percentage and which team they play for.

D: The teams sorted in on base percentage order.

E: The slugging percentage of each player sorted from lowest to highest for the entire set.

F: The total number of hits for each team.

G: The player with the fielding percentage that is the closest to the average fielding percentage of the entire all of the teams combined and which team they play on.

H: The user of the system should be asked if they want to see 1. The most or 2. The least of A.singles, B.doubles, C. Triples, D. Home runs and the system should print the appropriate player(s)

I: The player with the highest batting average on the team with the highest batting avg was traded for the team with the lowest batting avg #2 and #3 batting avg.

J: Reprint the stats for sections F and G with the updated team members

**Statements Required:** input, output, loop control, arrayList, classes

**Data Location: prog506w.txt**