# Baseball Standings Analyzer

Due Wednesday, October 7 @ 6pm

32 points

In this assignment, you will create an application that will read this tab-delimited file that expresses the current Major League Baseball standings:

League AL East

Tampa Bay 37 20

NY Yankees 32 24

Toronto 29 27

Baltimore 23 33

Boston 22 34

League AL Central

Minnesota 35 22

Chi White Sox 34 23

Cleveland 33 24

Kansas City 23 33

Detroit 22 32

League AL West

Oakland 34 21

Houston 28 28

LA Angels 26 31

Seattle 25 31

Texas 19 37

League NL East

Atlanta 34 22

Miami 28 28

Philadelphia 28 29

NY Mets 26 31

Washington 23 34

League NL Central

Chi Cubs 32 25

St. Louis 27 26

Cincinnati 29 28

Milwaukee 27 28

Pittsburgh 18 39

League NL West

LA Dodgers 39 17

San Diego 34 22

San Francisco 28 28

Colorado 25 31

Arizona 22 34

and display expanded standings in a nicely formatted way, like so:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* BASEBALL STANDINGS ANALYZER \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

This program reads a file that contains

current baseball standings and adds to

more detailed statistics. It also prints

overall standings in the American and

national leagues.

Enter the name of the standings file:

/Users/klumpra/Desktop/baseball.txt

Which standings would you like to see?

1. AL East

2. AL Central

3. AL West

4. NL East

5. NL Central

6. NL West

7. Overall

8. Exit

Enter the number of your choice: 1

Team Wins Losses Pct. Behind

-----------------------------------------------

Tampa Bay 37 20 0.649

NY Yankees 32 24 0.571 4.5

Toronto 29 27 0.518 7.5

Baltimore 23 33 0.411 13.5

Boston 22 34 0.393 14.5

Which standings would you like to see?

1. AL East

2. AL Central

3. AL West

4. NL East

5. NL Central

6. NL West

7. Overall

8. Exit

Enter the number of your choice: 2

Team Wins Losses Pct. Behind

-----------------------------------------------

Minnesota 35 22 0.614

Chi White Sox 34 23 0.596 1.0

Cleveland 33 24 0.579 2.0

Kansas City 23 33 0.411 11.5

Detroit 22 32 0.407 11.5

Which standings would you like to see?

1. AL East

2. AL Central

3. AL West

4. NL East

5. NL Central

6. NL West

7. Overall

8. Exit

Enter the number of your choice: 5

Team Wins Losses Pct. Behind

-----------------------------------------------

Chi Cubs 32 25 0.561

St. Louis 27 26 0.509 3.0

Cincinnati 29 28 0.509 3.0

Milwaukee 27 28 0.491 4.0

Pittsburgh 18 39 0.316 14.0

Which standings would you like to see?

1. AL East

2. AL Central

3. AL West

4. NL East

5. NL Central

6. NL West

7. Overall

8. Exit

Enter the number of your choice: 7

Team Wins Losses

-------------------------------

LA Dodgers 39 17

Tampa Bay 37 20

Oakland 34 21

Minnesota 35 22

Atlanta 34 22

San Diego 34 22

Chi White Sox 34 23

Cleveland 33 24

NY Yankees 32 24

Chi Cubs 32 25

Toronto 29 27

St. Louis 27 26

Cincinnati 29 28

Houston 28 28

Miami 28 28

San Francisco 28 28

Philadelphia 28 29

Milwaukee 27 28

LA Angels 26 31

NY Mets 26 31

Seattle 25 31

Colorado 25 31

Baltimore 23 33

Kansas City 23 33

Detroit 22 32

Washington 23 34

Boston 22 34

Arizona 22 34

Texas 19 37

Pittsburgh 18 39

Which standings would you like to see?

1. AL East

2. AL Central

3. AL West

4. NL East

5. NL Central

6. NL West

7. Overall

8. Exit

Enter the number of your choice: 8

Here are the requirements and what each is worth.

|  |  |
| --- | --- |
| 1 | Nicely formatted header |
| 4 | Nicely formatted menu that shows repeatedly and will politely tell the user to enter a number in the proper range when they don't or when they enter a non-integer instead and show them the menu again in that case. |
| 3 | You ask the user for the name of the standings file. The user specifies it, and you read that file into memory, closing the file at the end. |
| 8 | You display each league in response to the user choosing options 1 through 6, showing each team's name, wins, losses, winning percentage, and games behind in a nicely aligned table. |
| 8 | You display the list of all teams, sorted by their winning percentage, in response to the user choosing option 7. |
| 1 | You quit the program when the user chooses option 8. |
| 2 | You commit your homework to GitHub and submit on Blackboard the proper url to your GitHub account. |
| 3 | You include at least 3 functions. |
| 2 | You include helpful Javadoc comments in your code. |

You will receive a 10-point penalty if the program crashes during its run. You will receive 0 points if you submit something that will not compile. You will earn -32 points out of 32 points if you copy from another resource or allow someone else to copy from you.

As always, let me know when you have questions.