Assignment Number 7

100 Points

Prerequisites: Completion of Assignment 5

References: Text chapters 7, 15, and 16

Skills Required:

1. Advanced String manipulation techniques
2. String tokenizer
3. Understanding exceptions, Try and Catch
4. Reading and writing files

Instructor-Provided resources:

1. Some example programs for finding specific text strings in XML files
2. A link to a web tutorial on capturing web source into a text file using Java

Task Specifications:

1. Open the URL at NFL.com for stats of current players classified as Defensive Backs
   1. <http://www.nfl.com/players/search?category=position&playerType=current&conference=ALL&d-447263-p=1&filter=defensiveback&conferenceAbbr=null>
   2. Capture the HTML source for the page into a String object
2. Using regular expressions, find and extract the following data for all players of this type
   1. Pos (position)
   2. Num (jersey number)
   3. Name (last, first)
   4. Status
   5. Quick Stats (TCKL, SCK, and INT)
      1. Numbers of Tackles
      2. Numbers of Sacks
      3. Numbers of Interceptions
   6. Team
3. Write the stats into a single file
   1. One row per player, columns delimited by tabs
4. Note that there are several pages of players, so your application will need to account for this by going to each page until the end.

Evaluation Criteria

1. All tasks must be completed to receive credit for this assignment
2. Output file should report the correct values
3. Output file should be formatted for easy viewing