**CS 1301 MyTokens9**

**10/20/2015**

**Fares**

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| MyTokens9 |  |
| * allLines: ArrayList * allTokens : ArrayList<String> * alpha:ArrayList<String> * others : ArrayList<String> * numeric : ArrayList<Integer> * longestToken : String * numberOfLines: int * numberOfTokens: int * numberOfCharacters: int * numberOfLetters: int * numberOfDigits: int * numberOfAlphaTokens: int * numberOfNumericValues: int * numberOfOtherTokens: int * averageOfNumericValue:double | Holds one line per entry  Holds all tokens  Holds all alphabetic tokens (just letters)  Holds other than alpha & integers  Holds numeric values  Holds the longest token in the file  Holds the number of line in file  Holds the number of tokens in file  Holds the number of characters in file  Holds the number letters in file  Holds the number of digits in file  Holds the number of alpha tokens in file  Holds the number of numeric values in file  Holds the number of other tokens  Holds the average of all numeric values |
| +MyTokens9 (scan Scanner)  +processAllTokens():void  +processCharacters():void  -displayStringArrayList(list: ArrayList<String>):void  -displayIntegerArrayList(list:ArrayList<Integer>):void  -average(list: ArrayList<Integer>):void  +displayAllLists():void  +toString():String | Reads all data from input file and stores each line in an entry of the allLines ArrayList.    Scans each entry (a line of text –token-) of allLines ArrayList and stores alphabetic in alpha ArrayList, Integers in numeric ArrayList, and all others in others Arraylist. Computes number of lines, number of tokens, number of alphabetic tokens, numeric values, and others. Also, find the longest token in the file.  Processes allTokens ArrayList and count numbers of characters, letters, digits, alpha tokens, and numeric values.  Displays the contents of a String ArrayList  Displays the contents of an Integer ArrayList  Computes the numeric average  Invokes displayStringArrayList to print AllLines, allTokens, alpha, and others ArrayLists.  Also, it invokes displayIntegerArrayList to print the numeric ArrayList.  Returns a string with the values of the instance variables with the exception of the ArrayLists. |