Joshua Camacho Output

import\* java? io? File?

import\* java@ io@ FileNotFoundException?

import\* java@ util? ArrayList?

import\* java@ util@ HashMap?

import\* java@ util@ Iterator?

import\* java@ util@ Map?

import\* java@ util@ Scanner?

import\* javax? swing? JFileChooser?

import\* javax@ swing@ UIManager?

public\* class\* WordCount?

public\* static\* void\* main? String? args?

countWordsViaGUI?

allow? user? to? pick? file? to@ exam? via? GUI?

allow@ multiple? picks?

public\* static\* void\* countWordsViaGUI@

setLookAndFeel?

try\*

Scanner@ key? new\* Scanner@ System? in?

do\*

System@ out? println? Opening? GUI@ to@ choose? file@

Scanner@ fileScanner? new\* Scanner@ getFile?

Stopwatch? st? new\* Stopwatch@

st@ start?

ArrayList@ String@ words? countWordsWithArrayList? fileScanner@

st@ stop?

System@ out@ println@ time? to@ count? st@

System@ out@ print? Enter? number? of? words@ to@ display?

int\* numWordsToShow? Integer? parseInt? key@ nextLine?

showWords? words@ numWordsToShow@

fileScanner@ close?

System@ out@ print@ Perform? another? count?@

while\* key@ nextLine@ toLowerCase? charAt? 'y'

key@ close@

catch\* FileNotFoundException@ e?

System@ out@ println@ Problem? reading? the? data? file@ Exiting? the@ program? e@

determine? distinct? words@ in@ a? file@ and? frequency? of@ each? word? with? a@ Map@

private\* static\* Map@ String@ Integer@ countWordsWithMap? Scanner@ fileScanner@

System@ out@ println@ Total? number@ of@ words@ numWords?

System@ out@ println@ number@ of@ distincy? words@ result? size?

return\* result@

private\* static\* void\* showWords@ ArrayList@ String@ words@ int\* numWordsToShow@

for\* int\* i? i@ words@ size@ i@ numWordsToShow@ i@

System@ out@ println@ words@ get? i@

perform? a@ series? of@ experiments? on? files? Determine? average? time@ to@

count@ words@ in@ files@ of@ various? sizes?

private\* static\* void\* performExp?

String@ smallerWorks? smallWords? txt? 2BR02B txt@ Alice? txt@ SherlockHolmes? txt@

String@ bigFile? ciaFactBook2008? txt@

timingExpWithArrayList? smallerWorks@

timingExpWithArrayList@ bigFile@

timingExpWithMap? smallerWorks@

timingExpWithMap@ bigFile@

pre? titles? ! null? elements? of@ titles@ refer? to@ files@ in@ the@

same? path? as? this\* program@ numExp?

read? words@ from? files@ and@ print@ average@ time@ to@ cound? words@

private\* static\* void\* timingExpWithMap@ String@ titles@ int\* numExp@

try\*

double\* times? new\* double\* titles@ length?

final\* int\* NUM\_EXP?

for\* int\* i@ i@ NUM\_EXP@ i@

for\* int\* j? j@ titles@ length@ j@

Scanner@ fileScanner@ new\* Scanner@ new\* File@ titles@ j@

Stopwatch@ st@ new\* Stopwatch@

st@ start@

Map@ String@ Integer@ words@ countWordsWithMap@ fileScanner@

st@ stop@

System@ out@ println@ words@ size@

times@ j@ st@ time@

fileScanner@ close@

for\* double\* a@ times@

System@ out@ println@ a@ NUM\_EXP@

catch\* FileNotFoundException@ e@

System@ out@ println@ Problem@ reading@ the@ data@ file@ Exiting@ the@ program@ e@

try\* to@ set? look? and@ feel? to@ same@ as@ system?

private\* static\* void\* setLookAndFeel@

try\*

UIManager@ setLookAndFeel@ UIManager@ getSystemLookAndFeelClassName?

catch\* Exception? e@

System@ out@ println@ Unable? to@ set@ look@ at? feel@ to@ local? settings?

Continuing? with@ default\* Java? look@ and@ feel@

Method? to@ choose@ a@ file@ using? a@ window?

@return the@ file@ chosen? by? the@ user@ Returns? null@ if\* no? file@ picked?

private\* static\* File@ getFile@

create? a@ GUI@ window@ to@ pick@ the@ text? to@ evaluate?

JFileChooser@ chooser? new\* JFileChooser@

chooser@ setDialogTitle? Select? File@ To? Count? Words?

int\* retval? chooser@ showOpenDialog? null@

File@ f? null@

chooser@ grabFocus?

if\* retval@ JFileChooser@ APPROVE\_OPTION?

f@ chooser@ getSelectedFile?

return\* f@







  


  


  
