Group 31 Project 1

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March 13, 2018

SENG 300-L01

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Our program will take a pathname to indicate a directory of interest (example: C:\Users\Stephen\Desktop\), take a string to indicate a fully qualified name of a Java type (example: String), and the program will counts the number of declarations of that type within that directory, and count the number of references to each occurrence of that type within that directory.

We have variable:

**File[ ] path** variable that is a list that contain each java file name;

**String type** is the Java type that user put in;

**Int declarationsFound** is the number of declaration has been counted:

**Int referencesFound** is the number of reference has been counted;

We have function:

**Program** initial the variable **path** and **type** ;

**finder** the function will return an array of .java files in given directory pathname

(Code taken from: <https://stackoverflow.com/questions/1384947/java-find-txt-files-in-specified-folder>);

**parse** function which created an ASTParser prase the file and look for the type we want, increment count\_dec and count\_ref if we found that type;

We will make sure user have two input, which is needed, then we will start with get all the java file name as an array, then try to read each file to see if there have any problem with reading. Then parse the file and look for the type, if found one then increment the count and print out the result at the end of the program.

Source:

**finder**:

<https://stackoverflow.com/questions/1384947/java-find-txt-files-in-specified-folder>

**main**:

<https://adam-bien.com/roller/abien/entry/java_8_reading_a_file>

<http://www.javased.com/index.php?api=org.eclipse.jdt.core.dom.ASTParser>

<https://stackoverflow.com/questions/49179071/how-to-get-the-fully-qualified-name-of-node-in-an-ast>

