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Name: put your name here

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Summary file for decaf-Muzual

Name: put your name here

Student number: put your student number here

Lab class: put the day and time of your Software Architectures lab class here

LEXER TESTING

*** Legal tests ***

legal-01 produced incorrect output
legal-02 produced incorrect output
legal-03 produced incorrect output
legal-04 produced incorrect output
legal-05 produced incorrect output
legal-06 CORRECT
legal-07 CORRECT
legal-08 produced incorrect output
legal-09 produced incorrect output
legal-10 produced incorrect output
legal-11 produced incorrect output
legal-12 produced incorrect output
legal-13 produced incorrect output
legal-14 produced incorrect output
legal-15 CORRECT
legal-16 CORRECT
legal-17 produced incorrect output
legal-18 CORRECT
legal-19 produced incorrect output
legal-20 CORRECT
legal-21 produced incorrect output
legal-22 produced incorrect output
legal-23 produced incorrect output
legal-24 produced incorrect output
legal-25 CORRECT

*** Illegal tests ***

illegal-01 CORRECT
illegal-02 CORRECT
illegal-03 CORRECT
illegal-04 CORRECT
illegal-05 CORRECT
illegal-06 CORRECT
illegal-07 CORRECT
illegal-08 CORRECT
illegal-09 CORRECT
illegal-10 CORRECT

update ABOUT file

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<pre> /* * Skeleton code for your Lexer, provided by Emma Norling * * Please note that this code is far from complete. * It needs to be extended and the documentation updated to reflect your changes * */ lexer grammar DecafLexer; // These rules match // all of the reserved words for Decaf (case sensitive) CLASS : 'class'; BOOLEAN : 'boolean'; BREAK : 'break'; CALLOUT : 'callout'; CONTINUE : 'continue'; ELSE : 'else'; FALSE : 'false'; FOR : 'for'; IF : 'if'; RETURN : 'return'; TRUE : 'true'; VOID : 'void'; INT : 'int'; // these rules capture numerical operators // not yet imp // These two rules deal with characters that have special meaning in Decaf - again, what others? LCURLY : '{'; RCURLY : '}'; // This says an identifier is a sequence of one or more alphabetic characters // or beginning with an underscore. can also contain digits. // Decaf is a little more sophisticated than this. ID : ('a'..'z' 'A'..'Z' '_') ('a'..'z' 'A'..'Z' '_' '0' .. '9')*; // This rule simply ignores (skips) any space, tab or newline characters WS_ : (' ' '\t' '\n' SL_COMMENT '\f')+ -> skip; // And this rule ignores comments (everything from a '//' to the end of the line) SL_COMMENT : '//' (~'\n')* '\n' -> skip; // These two rules completely describe characters and strings, and make use of the ESC and NOTESC fragments described below // This rule says a character is contained within single quotes, and is a single instance of either an ESC, or any character other than a single quote, a single backslash, a single double quote, plus the 2-character sequences // of '\', '\', '\t and '\n // Character literals are composed of a <char> in single quotes CHAR : '\'' (ESC NOTESC) '\''; // This rule says a string is contained within double quotes, and is one or more instances of either an ESC, a NOTESC character or any other than a double quote. // String Literals are composed of <char>s enclosed in double quotes STRING : '"' (ESC NOTESC)* '"'; </pre>		

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<pre> // this rule says an integer is either one or no negative signs followed by or more integer INTLIT : '-'?[0-9]+; <i>HEX;</i> // this rule says a hex number is an integer from 0-9 followed by either ca: // of a-f HEX : '0'x'([0-9] [a-f] [A-F])+'; <i>fragment</i> // A rule that is marked as a fragment will NOT have a token created for it anything matching the rules above // will create a token in the output, but something matching the ESC rule be will only be used locally in the scope // of this file. Any rule that should not generate an output token should be ceded by the fragment keyword. // ESC matches either a pair of characters representing a newline ('\n' and or a pair of characters representing // a double quote ('\n' and '"'). HINT: there are many other characters that ld be escaped - think of how you need // to write them in strings in languages like Java. fragment ESC : '\\\ ('' '\n' '\t' '\f' '\r'); // NOTESC matches single quotes, double quotes, backslash, double backslash, s well // the escape character for two character sequences such as newline, new tal comment fragment NOTESC : ~('' '\n' '\t' '\f' '\r'); </pre>		

Make sure you put the correct labels in Main.java (otherwise automated testing fails).