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Log book for user: a1779153 for assignment: [2020/s2/cs/assignment3](#)

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Datestamp	Entry
02 Nov 2020 23:59:59	02 Nov 2020 23:59:59
02 Nov 2020 23:08:44 Kind: Text, by: a1779153, from: 114_30_97_20	Reflection: In assignment 3: Jack Compiler, I implemented a compiler that compiles and converts the Jack code into VM code. First, I created a parser that extracts each token of the Jack language using a tokeniser and converts them in an XML format of abstract syntax tree. This syntax tree is then used in codegen that traverses through the tree and generates relevant VM code. In parser, based on grammar rules I traversed through the tokens

	<p>using <code>mustbe()</code> function ensures if each token is of a particular kind. I used <code>have()</code> function to check if a token of <code>TokenKind</code> is present. Based on these two functions I traversed through the code and generated syntax tree and subtree using recursive descent parsing. This was then used for generating VM code, <code>optimiser-r</code>, and make it pretty. This is an intermediate process for to convert jack code into VM code. We can directly convert jack code to VM code, but the syntax tree makes the code generator process easier. This section helped me understand the process to examine the tokens and generate trees, and subtrees of the Jack OS code.</p> <p>After implementing parser I used XML representation of the tree in codegen and used <code>write_to_output()</code> to print out corresponding VM code. The subtree of the variable generated from the parser consists of information of its segment, offset, name and type which made the codegen process easier as it did not require any symbol tables to access the variables. The offset of the variables gave information about the offset position in their respective segments. I used <code>if-goto</code> and <code>label</code> statements for conditional jump for <code>if</code>, <code>if-else</code>, and <code>while</code> statement. In case of method declaration's argument, I had to increase offset by 1 as we need 1 location to store method's object. This section helped me understand how codegen walks through the syntax tree and generates VM code.</p> <p>I used syntax tree produced from parser to traverse through in pretty and structured the code. I provided proper indentation to the function, method, and loops in the code. Even the curly braces started from the new line. After full variable declaration in each scope I left a blank line. There was also a condition to keep static variables before field variables. This section helped me acquaint myself with traversing the tree and structuring the code. I used <code>optimiser-r</code> to remove redundant code. The same syntax tree generated from parser is traversed to check redundancy and remove it from the syntax tree. If the condition of the <code>if</code>, <code>if-else</code> and <code>while</code> is false then it would not be executed at all or for <code>if</code> and <code>if-else</code> statement it is true it will always be executed therefore I can remove unnecessary section of the code as it is never executed. I also checked to see if the variables were used in the code and if it is not used, I removed that variable. This section helped me understand how to optimise the code.</p> <p>In this assignment, I learnt to create an abstract syntax tree using a parser and using this tree in codegen to convert higher language code into VM code. I also learned how to traverse a tree structure and use it for other applications. This knowledge will serve as a foundation for understanding process behind a high-level language compiler.</p>
Skipped 16 days ...	Skipped 16 days ...
16 Oct 2020 23:59:59	16 Oct 2020 23:59:59
16 Oct 2020 20:04:11 Kind: Text, by: a1779153, from: 10_32_60_42	modified <code>copy_statements()</code> . if <code>ast_statements</code> is returned then each <code>ast_statement</code> is required to be pushed back in <code>decs</code> vector.
16 Oct 2020 20:02:10 Web Submission, from: 10_32_60_42	Submitted Revision: 698 to Assignment 3 - Submit Here
16 Oct 2020 20:01:57 SVN Log Entry	r698 a1779153 2020-10-16 20:01:57 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log worked on 7th test case
16 Oct 2020 20:01:07	Working ...
16 Oct 2020 19:51:01 Web Submission, from: 10_32_60_42	Submitted Revision: 697 to Assignment 3 - Submit Here
16 Oct 2020 19:50:48 SVN Log Entry	r697 a1779153 2020-10-16 19:50:48 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log checking for <code>if-else</code> condition

16 Oct 2020 19:50:15	Working ...
16 Oct 2020 19:47:52 Kind: Text, by: a1779153, from: 10_32_60_42	I tried to replace if_true statements in if condition if the bool is true but seems like it is not working. I tried returning if_true as well as if_true_copy but it is not working I am not sure why.
16 Oct 2020 19:45:05 Web Submission, from: 10_32_60_42	Submitted Revision: 696 to Assignment 3 - Submit Here
16 Oct 2020 19:44:51 SVN Log Entry	r696 a1779153 2020-10-16 19:44:51 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp checking again for replaced if condition by if_true statement
16 Oct 2020 19:43:34 Web Submission, from: 10_32_60_42	Submitted Revision: 695 to Assignment 3 - Submit Here
16 Oct 2020 19:43:20 SVN Log Entry	r695 a1779153 2020-10-16 19:43:20 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log checking for replaced if condition by if_true statement
16 Oct 2020 19:42:21	Working ...
16 Oct 2020 19:39:50 Kind: Text, by: a1779153, from: 10_32_60_42	Applied same logic for if statements.
16 Oct 2020 19:38:13 Web Submission, from: 10_32_60_42	Submitted Revision: 694 to Assignment 3 - Submit Here
16 Oct 2020 19:37:38 SVN Log Entry	r694 a1779153 2020-10-16 19:37:38 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log applied same logic for if statement
16 Oct 2020 19:36:58	Working ...
16 Oct 2020 19:34:41 Kind: Text, by: a1779153, from: 10_32_60_42	worked on 2nd test case. In function copy_while() for the condition expression I check if it is a term then I retrieve the term and check if it is ast_bool. If yes and it is false I create an empty tree. I also check for empty tree in copy_statement() and if it is empty I return empty tree.
16 Oct 2020 19:31:35 Web Submission, from: 10_32_60_42	Submitted Revision: 693 to Assignment 3 - Submit Here
16 Oct 2020 19:31:19 SVN Log Entry	r693 a1779153 2020-10-16 19:31:19 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log worked on 2nd test case
*** 2 Hours	*** 2 Hours ***
16 Oct 2020 19:20:00	Working ...
16 Oct 2020 18:50:52 Web Submission, from: 10_32_60_42	Submitted Revision: 692 to Assignment 3 - Submit Here
16 Oct 2020 18:50:39 SVN Log Entry	r692 a1779153 2020-10-16 18:50:39 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp reverting back to previous solution
16 Oct 2020 18:49:55 Web Submission, from: 10_32_60_42	Submitted Revision: 691 to Assignment 3 - Submit Here

16 Oct 2020 18:49:39 SVN Log Entry	r691 a1779153 2020-10-16 18:49:39 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log checking for field variables
16 Oct 2020 18:49:06	Working ...
16 Oct 2020 18:48:38 Kind: Text, by: a1779153, from: 10_32_60_42	Used the same logic as before to remove unused static variables.
16 Oct 2020 18:47:47 Web Submission, from: 10_32_60_42	Submitted Revision: 690 to Assignment 3 - Submit Here
16 Oct 2020 18:47:28 SVN Log Entry	r690 a1779153 2020-10-16 18:47:28 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp worked on removing static unused variables
16 Oct 2020 18:40:37 Kind: Text, by: a1779153, from: 10_32_60_42	removed a write_to_output() used for debugging.
16 Oct 2020 18:39:10 Web Submission, from: 10_32_60_42	Submitted Revision: 689 to Assignment 3 - Submit Here
16 Oct 2020 18:38:57 SVN Log Entry	r689 a1779153 2020-10-16 18:38:57 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log removed write_to_output()
16 Oct 2020 18:38:15	Working ...
16 Oct 2020 18:34:42 Kind: Text, by: a1779153, from: 10_32_60_42	Started working on optimiser-r. created a symbol table to add variables used in the program. I modified copy_subr_body() to execute copy_statements() and then copy_var_decs(). I insert the variable in the symbol table in copy_var() (which is executed in copy_statements()). Then I check in copy_var_dec() if the variable is used we push back in decs otherwise we remove it.
16 Oct 2020 18:29:55 Web Submission, from: 10_32_60_42	Submitted Revision: 688 to Assignment 3 - Submit Here
16 Oct 2020 18:29:27 SVN Log Entry	r688 a1779153 2020-10-16 18:29:27 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/optimiser-r.cpp M /2020/s2/cs/assignment3/updates/log worked on 1st test case
16 Oct 2020 18:28:34	Working ...
*** 1 Hour	*** 1 Hour ***
16 Oct 2020 18:25:23	Working ...
Missing Logbook Entry	Missing Logbook Entry
16 Oct 2020 11:50:46 Web Submission, from: 10_32_70_99	Submitted Revision: 687 to Assignment 3 - Submit Here
16 Oct 2020 11:50:13 SVN Log Entry	r687 a1779153 2020-10-16 11:50:13 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/parser.cpp

	<p>M /2020/s2/cs/assignment3/pretty.cpp</p> <p>removed some redundant blank lines</p>
16 Oct 2020 11:44:19 Web Submission, from: 10_32_70_99	Submitted Revision: 686 to Assignment 3 - Submit Here
16 Oct 2020 11:44:02 SVN Log Entry	<p>r686 a1779153 2020-10-16 11:44:02 +1030 (Fri, 16 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/codegen.cpp</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/pretty.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>separated logic blocks</p>
16 Oct 2020 11:43:30	Working ...
16 Oct 2020 11:31:58 Web Submission, from: 10_32_70_99	Submitted Revision: 685 to Assignment 3 - Submit Here
16 Oct 2020 11:31:42 SVN Log Entry	<p>r685 a1779153 2020-10-16 11:31:42 +1030 (Fri, 16 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/codegen.cpp</p> <p>M /2020/s2/cs/assignment3/optimiser-r.cpp</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/pretty.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>added code authorship</p>
*** 2 Hours	*** 2 Hours ***
16 Oct 2020 11:30:41 Kind: Text, by: a1779153, from: 10_32_70_99	Deleted the symbol tables after their scope is over
16 Oct 2020 11:29:33	Working ...
16 Oct 2020 11:27:13 Web Submission, from: 10_32_70_99	Submitted Revision: 684 to Assignment 3 - Submit Here
16 Oct 2020 11:26:56 SVN Log Entry	<p>r684 a1779153 2020-10-16 11:26:56 +1030 (Fri, 16 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>added delete_variables()</p>
16 Oct 2020 11:25:56	Working ...
16 Oct 2020 10:45:56 Kind: Text, by: a1779153, from: 10_32_70_99	worked on cat ComplexA test case. Implemented walk_null().
16 Oct 2020 10:45:03 Web Submission, from: 10_32_70_99	Submitted Revision: 683 to Assignment 3 - Submit Here
16 Oct 2020 10:44:48 SVN Log Entry	<p>r683 a1779153 2020-10-16 10:44:48 +1030 (Fri, 16 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/pretty.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>worked on ComplexA test case</p>
16 Oct 2020 10:43:58	Working ...
16 Oct 2020 10:43:18 Kind: Text, by: a1779153, from: 10_32_70_99	worked on ArrayTst test case. Implemented walk_do(), walk_array_index(), walk_let_array() and walk_string().
16 Oct 2020 10:41:42 Web Submission, from: 10_32_70_99	Submitted Revision: 682 to Assignment 3 - Submit Here

16 Oct 2020 10:41:21 SVN Log Entry	r682 a1779153 2020-10-16 10:41:21 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on ArrayTst test case
16 Oct 2020 10:40:35	Working ...
16 Oct 2020 10:33:58 Kind: Text, by: a1779153, from: 10_32_70_99	worked on 18th test case. Modified walk_term() to add term in parenthesis if it is an ast_expr.
16 Oct 2020 10:32:35 Web Submission, from: 10_32_70_99	Submitted Revision: 681 to Assignment 3 - Submit Here
16 Oct 2020 10:32:08 SVN Log Entry	r681 a1779153 2020-10-16 10:32:08 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 18th test case
*** 1 Hour	*** 1 Hour ***
16 Oct 2020 10:31:24	Working ...
16 Oct 2020 10:27:50 Kind: Text, by: a1779153, from: 10_32_70_99	worked on 17th test case. Implemented walk_unary_op().
16 Oct 2020 10:27:03 Web Submission, from: 10_32_70_99	Submitted Revision: 680 to Assignment 3 - Submit Here
16 Oct 2020 10:26:48 SVN Log Entry	r680 a1779153 2020-10-16 10:26:48 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 17th test case
16 Oct 2020 10:26:11	Working ...
16 Oct 2020 10:24:11 Kind: Text, by: a1779153, from: 10_32_70_99	worked on 10th test case. modified walk_call_as_method() to remove "this." method name. Also modified walk_expr_list() and walk_params_list() to add comma between variables.
16 Oct 2020 10:21:33 Web Submission, from: 10_32_70_99	Submitted Revision: 679 to Assignment 3 - Submit Here
16 Oct 2020 10:21:07 SVN Log Entry	r679 a1779153 2020-10-16 10:21:07 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 10th test case
16 Oct 2020 10:20:12	Working ...
16 Oct 2020 10:05:43 Kind: Text, by: a1779153, from: 10_32_70_99	worked on 9th test case. Implemented walk_constructor(), walk_method(), walk_call_as_method() and walk_this() Modified walk_class_var_decs() to first walk through static variables add a blank line and then walk through field variables. I have used a counter to keep track of number of static or field variable decs.
16 Oct 2020 10:03:10 Web Submission, from: 10_32_70_99	Submitted Revision: 678 to Assignment 3 - Submit Here
16 Oct 2020 10:01:18 SVN Log Entry	r678 a1779153 2020-10-16 10:01:18 +1030 (Fri, 16 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log

	worked on 9th test case
16 Oct 2020 10:00:48	Working ...
15 Oct 2020 23:59:59	15 Oct 2020 23:59:59
15 Oct 2020 19:22:33 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 8th test case. Added blankLine in walk_function() similar tp walk_while(). It checks if it is not a followed by '}' in walk_subr_decs(). Implemented walk_call_as_function() and walk_subr_call()
15 Oct 2020 19:19:32 Web Submission, from: 129_127_232_156	Submitted Revision: 677 to Assignment 3 - Submit Here
15 Oct 2020 19:19:16 SVN Log Entry	r677 a1779153 2020-10-15 19:19:16 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 8th test case
15 Oct 2020 19:18:41	Working ...
15 Oct 2020 19:09:40 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 7th test case. Implemented walk_let(), walk_int(), walk_var(), walk_infix_op(). I have also added a blank space after class variable declarations.
15 Oct 2020 19:07:54 Web Submission, from: 129_127_232_156	Submitted Revision: 676 to Assignment 3 - Submit Here
15 Oct 2020 19:07:33 SVN Log Entry	r676 a1779153 2020-10-15 19:07:33 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 7th test case
15 Oct 2020 19:06:46	Working ...
15 Oct 2020 19:00:48 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 5th test case. Implemented walk_if() and walk_if_else() I used similar technique as walk_while() for adding a newline at the end of the if or if_else statement.
*** 3 Hours	*** 3 Hours ***
15 Oct 2020 18:58:49 Web Submission, from: 129_127_232_156	Submitted Revision: 675 to Assignment 3 - Submit Here
15 Oct 2020 18:58:33 SVN Log Entry	r675 a1779153 2020-10-15 18:58:33 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 5th test case
15 Oct 2020 18:57:45	Working ...
15 Oct 2020 18:54:06 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 4th test case. Created a new global variable blankLine which becomes true at the end of a while loop but it checks in walk_statements() if it is not immediately followed by '}'. if it is not followed it adds a new line.
15 Oct 2020 18:51:45 Web Submission, from: 129_127_232_156	Submitted Revision: 674 to Assignment 3 - Submit Here
15 Oct 2020 18:51:28 SVN Log Entry	r674 a1779153 2020-10-15 18:51:28 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 4th test case

15 Oct 2020 18:50:50	Working ...
15 Oct 2020 18:47:32 Kind: Text, by: a1779153, from: 129_127_232_156	worked in 3rd test case. Implemented walk_while() and walk_bool().
15 Oct 2020 18:46:30 Web Submission, from: 129_127_232_156	Submitted Revision: 673 to Assignment 3 - Submit Here
15 Oct 2020 18:46:14 SVN Log Entry	r673 a1779153 2020-10-15 18:46:14 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 3rd test case
15 Oct 2020 18:45:31	Working ...
15 Oct 2020 18:39:52 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 2nd test case. Implemented walk_var_dec() to check for different segment values and declare variables accordingly. Also modified walk_var_decs() to add a newline after all variables declarations.
15 Oct 2020 18:37:52 Web Submission, from: 129_127_232_156	Submitted Revision: 672 to Assignment 3 - Submit Here
15 Oct 2020 18:37:36 SVN Log Entry	r672 a1779153 2020-10-15 18:37:36 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 2nd test case
15 Oct 2020 18:37:05	Working ...
15 Oct 2020 18:29:15 Kind: Text, by: a1779153, from: 129_127_232_156	Started working on pretty. Worked on 1st test case. Implemented walk_class(), walk_function(), walk_return(). I have created a function indent() to add indentation (global variable) * 4 spaces into the output.
15 Oct 2020 18:27:02 Web Submission, from: 129_127_232_156	Submitted Revision: 671 to Assignment 3 - Submit Here
15 Oct 2020 18:26:41 SVN Log Entry	r671 a1779153 2020-10-15 18:26:41 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/pretty.cpp M /2020/s2/cs/assignment3/updates/log worked on 1st test case
15 Oct 2020 18:26:07	Working ...
*** 2 Hours	*** 2 Hours ***
15 Oct 2020 17:17:35 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ComplexA test case. implemented walk_null().
15 Oct 2020 17:16:58 Web Submission, from: 129_127_232_156	Submitted Revision: 670 to Assignment 3 - Submit Here
15 Oct 2020 17:16:46 SVN Log Entry	r670 a1779153 2020-10-15 17:16:46 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on ComplexA test case
15 Oct 2020 17:15:54	Working ...
15 Oct 2020 17:13:01 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ArrayTst test case. Implemented walk_let_array(), walk_string() and walk_array_index(). In walk_string() I 1st pushed the length of the string and then call String.new function. Then I looped over the

	length of the string and type cast each character to int in order to get the ascii value of it and then converted it to string wrote it to output.
15 Oct 2020 17:08:54 Web Submission, from: 129_127_232_156	Submitted Revision: 669 to Assignment 3 - Submit Here
15 Oct 2020 17:08:21 SVN Log Entry	r669 a1779153 2020-10-15 17:08:21 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on ArrayTst test case
15 Oct 2020 17:03:15	Working ...
*** 1 Hour	*** 1 Hour ***
15 Oct 2020 16:59:16	Working ...
15 Oct 2020 16:44:47 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 18th test case. Modified walk_expr() to implement expression in left order precedence. I kept a counter to check and print the infix after a term is walked.
15 Oct 2020 16:42:36 Web Submission, from: 129_127_232_156	Submitted Revision: 668 to Assignment 3 - Submit Here
15 Oct 2020 16:42:12 Web Submission, from: 129_127_232_156	Submitted Revision: 668 to Assignment 3 - Submit Here
15 Oct 2020 16:41:58 SVN Log Entry	r668 a1779153 2020-10-15 16:41:58 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 18th test case
15 Oct 2020 16:41:15	Working ...
15 Oct 2020 16:25:24 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 17th test case. Implemented walk_unary_op() function.
15 Oct 2020 16:24:36 Web Submission, from: 129_127_232_156	Submitted Revision: 667 to Assignment 3 - Submit Here
15 Oct 2020 16:24:20 SVN Log Entry	r667 a1779153 2020-10-15 16:24:20 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 17th test case
15 Oct 2020 16:23:37	Working ...
15 Oct 2020 16:18:43 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 9th test case. Implemented walk_constructor() and walk_method() and walk_call_as_method(). I have created a variable this counter to keep track of this segment's offset value. I am increasing it in walk_var_dec() whenever var's segment is "this".
15 Oct 2020 16:14:48	Working ...
Missing Logbook Entry	Missing Logbook Entry
15 Oct 2020 14:22:52 Web Submission, from: 129_127_232_156	Submitted Revision: 666 to Assignment 3 - Submit Here
15 Oct 2020 14:22:38 SVN Log Entry	r666 a1779153 2020-10-15 14:22:38 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log

	worked on 9th test case
15 Oct 2020 14:21:41	Working ...
15 Oct 2020 14:05:24 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 8th test case. Implemented walk_return_expr() and walk_call_as_function(). created 2 new variables 1 to get the name of subroutine and expr_list.
15 Oct 2020 14:03:57 Web Submission, from: 129_127_232_156	Submitted Revision: 665 to Assignment 3 - Submit Here
15 Oct 2020 14:03:41 SVN Log Entry	r665 a1779153 2020-10-15 14:03:41 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 8th test case
15 Oct 2020 14:02:57	Working ...
15 Oct 2020 13:56:34 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 7th test case. Implemented walk_infix_op(), walk_var(), walk_int(). Modified walk_expr() which first walks through the terms and then walks the infix operators.
15 Oct 2020 13:54:50 Web Submission, from: 129_127_232_156	Submitted Revision: 664 to Assignment 3 - Submit Here
15 Oct 2020 13:54:35 SVN Log Entry	r664 a1779153 2020-10-15 13:54:35 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 7th test case
15 Oct 2020 13:53:56	Working ...
Missing Logbook Entry	Missing Logbook Entry
Missing SVN Commit	Missing SVN Commit
15 Oct 2020 11:26:34	Working ...
*** 2 Hours	*** 2 Hours ***
15 Oct 2020 11:15:07 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 5th test case. implemented walk_if() and walk_if_else() functions adopted similar approach to walk_while(). created an If counter to keep label names unique Like walk_while() I have managed nested if and if_else case.
15 Oct 2020 11:13:17 Web Submission, from: 129_127_232_156	Submitted Revision: 663 to Assignment 3 - Submit Here
15 Oct 2020 11:12:56 SVN Log Entry	r663 a1779153 2020-10-15 11:12:56 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 5th test case
15 Oct 2020 11:12:22	Working ...
15 Oct 2020 10:45:36 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 4th test case. Moodified walk_while() to handle nested while test case. Instead to writing directly from global variable I am now saving it in a new local variable first and then printing it using write_to_output().
15 Oct 2020 10:43:39 Web Submission, from: 129_127_232_156	Submitted Revision: 662 to Assignment 3 - Submit Here

15 Oct 2020 10:43:17 SVN Log Entry	r662 a1779153 2020-10-15 10:43:17 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 4th test case
15 Oct 2020 10:42:37	Working ...
15 Oct 2020 10:40:28 Kind: Text, by: a1779153, from: 129_127_232_156	worked on 3rd test case. Implemented walk_while() and walk_bool()--> return -1 if true and 0 if false.
15 Oct 2020 10:39:01 Web Submission, from: 129_127_232_156	Submitted Revision: 661 to Assignment 3 - Submit Here
15 Oct 2020 10:38:44 SVN Log Entry	r661 a1779153 2020-10-15 10:38:44 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/updates/log worked on 3rd test case
15 Oct 2020 10:38:13	Working ...
15 Oct 2020 10:28:59 Kind: Text, by: a1779153, from: 129_127_232_156	Started working on Codegen. worked on 1st test case implemented walk_function() and walk_return(). In walk_function() I created a new variable to get the size of nVars and I also made the className global.
15 Oct 2020 10:26:16 Web Submission, from: 129_127_232_156	Submitted Revision: 660 to Assignment 3 - Submit Here
15 Oct 2020 10:26:03 SVN Log Entry	r660 a1779153 2020-10-15 10:26:03 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/codegen.cpp M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 1st test case
15 Oct 2020 10:25:22	Working ...
*** 1 Hour	*** 1 Hour ***
15 Oct 2020 10:14:01	Working ...
15 Oct 2020 10:05:09 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ComplexA test case. Modified parse_term() to handle null token.
15 Oct 2020 10:04:44	Working ...
15 Oct 2020 10:01:19 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ElSquare test case. made static and field offset global to handle if there are more than one static and field declarations.
15 Oct 2020 10:00:07 Web Submission, from: 129_127_232_156	Submitted Revision: 659 to Assignment 3 - Submit Here
15 Oct 2020 09:59:49 SVN Log Entry	r659 a1779153 2020-10-15 09:59:49 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on ElSquare test case
15 Oct 2020 09:58:36	Working ...
15 Oct 2020 09:55:51 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ComplexA test case. Modified parse_term() to handle null token.

15 Oct 2020 09:54:59 Web Submission, from: 129_127_232_156	Submitted Revision: 658 to Assignment 3 - Submit Here
15 Oct 2020 09:54:41 SVN Log Entry	r658 a1779153 2020-10-15 09:54:41 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/updates/log worked on ComplexA test case
15 Oct 2020 09:53:58	Working ...
15 Oct 2020 09:53:52 SVN Log Entry	r657 a1779153 2020-10-15 09:53:52 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp worked on ArratTst test case
15 Oct 2020 09:52:46 Kind: Text, by: a1779153, from: 129_127_232_156	worked on ArrayTst test case. modified parse_term() function to handle string constant case. Also implemented parse_do() function.
15 Oct 2020 09:50:20 Web Submission, from: 129_127_232_156	Submitted Revision: 656 to Assignment 3 - Submit Here
15 Oct 2020 09:48:04 SVN Log Entry	r656 a1779153 2020-10-15 09:48:04 +1030 (Thu, 15 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on ArratTst test case
15 Oct 2020 09:47:17	Working ...
14 Oct 2020 23:59:59	14 Oct 2020 23:59:59
14 Oct 2020 19:07:22 Kind: Text, by: a1779153, from: 129_127_232_123	worked on 17th test case. modified parse_term() to add unary_op
14 Oct 2020 19:05:56 Web Submission, from: 129_127_232_123	Submitted Revision: 655 to Assignment 3 - Submit Here
14 Oct 2020 19:05:49 Web Submission, from: 129_127_232_123	Submitted Revision: 655 to Assignment 3 - Submit Here
14 Oct 2020 19:05:35 SVN Log Entry	r655 a1779153 2020-10-14 19:05:35 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 17th test case
14 Oct 2020 19:04:33	Working ...
14 Oct 2020 19:03:35 Kind: Text, by: a1779153, from: 129_127_232_123	worked on 10th test case. added a case for create_call_as_method() when there is no identifier and method is called. I created global variable to store classname for this purpose and I have also modified the static and field var_dec function to increase offset value. I have also added string argument in parse_params_list() function whcih checks for a method and increases a segment offset by 1 (to store its call location).
14 Oct 2020 18:58:19 Web Submission, from: 129_127_232_123	Submitted Revision: 654 to Assignment 3 - Submit Here
14 Oct 2020 18:57:59 SVN Log Entry	r654 a1779153 2020-10-14 18:57:59 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 10th test case
14 Oct 2020 18:57:27	Working ...

14 Oct 2020 18:39:30 Kind: Text, by: a1779153, from: 129_127_232_123	worked on 9th test case. implemented <code>parse_constructor()</code> , <code>parse_field_var_dec()</code> , <code>parse_method()</code> and <code>modified_parse_term()</code> , <code>modified_parse_class_var_decs()</code>
14 Oct 2020 18:37:38 Web Submission, from: 129_127_232_123	Submitted Revision: 653 to Assignment 3 - Submit Here
14 Oct 2020 18:37:14 SVN Log Entry	r653 a1779153 2020-10-14 18:37:14 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 9th test case
14 Oct 2020 18:36:29	Working ...
*** 1 Hour	*** 1 Hour ***
14 Oct 2020 18:07:51	Working ...
14 Oct 2020 17:52:48 Kind: Text, by: a1779153, from: 129_127_232_123	worked on 8th test case. implemented <code>create_call_as_a_function()</code> <code>create_call_as_a_method()</code> . Also implemented <code>parse_index()</code> , <code>parse_id_call()</code> , <code>parse_expr_list()</code> functions to handle call as a function.
Missing SVN Commit	Missing SVN Commit
14 Oct 2020 17:46:23	Working ...
14 Oct 2020 17:27:03 Web Submission, from: 129_127_232_123	Submitted Revision: 652 to Assignment 3 - Submit Here
14 Oct 2020 17:26:37 SVN Log Entry	r652 a1779153 2020-10-14 17:26:37 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 8th test case
14 Oct 2020 17:25:57	Working ...
14 Oct 2020 10:54:13 Kind: Text, by: a1779153, from: 129_127_232_152	worked on 7th test case. implemented <code>parse_let()</code> , <code>parse_static_var()</code> functions. I have also created a new function to check if variable if present in both local and class symbol tables.
14 Oct 2020 10:40:14 Web Submission, from: 129_127_232_152	Submitted Revision: 651 to Assignment 3 - Submit Here
14 Oct 2020 10:39:55 SVN Log Entry	r651 a1779153 2020-10-14 10:39:55 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp M /2020/s2/cs/assignment3/updates/log worked on 7th test case
14 Oct 2020 10:37:21	Working ...
*** 1 Hour	*** 1 Hour ***
14 Oct 2020 10:06:20	Working ...
14 Oct 2020 09:46:49 Kind: Text, by: a1779153, from: 129_127_232_152	worked on 5th test case. Implemented <code>parse_if()</code> it parses condition and true statements. Then it checks if "else" is present if present it will execute false statements and create if else tree otherwise just if tree.
14 Oct 2020 09:43:50 Web Submission, from: 129_127_232_152	Submitted Revision: 650 to Assignment 3 - Submit Here
14 Oct 2020 09:43:22 SVN Log Entry	r650 a1779153 2020-10-14 09:43:22 +1030 (Wed, 14 Oct 2020) 1 line Changed paths: M /2020/s2/cs/assignment3/parser.cpp

	<p>M /2020/s2/cs/assignment3/updates/log</p> <p>worked on 5th test case</p>
14 Oct 2020 09:42:18	Working ...
<p>14 Oct 2020 09:36:27</p> <p>Kind: Text, by: a1779153, from: 129_127_232_152</p>	<p>worked on 4th test case. modified create_bool() for false boolean. I kept mustbe(tk_false) inside the create_bool which return true value so I moved it outside and passed false in the argument.</p>
14 Oct 2020 09:34:30 Web Submission, from: 129_127_232_152	Submitted Revision: 649 to Assignment 3 - Submit Here
14 Oct 2020 09:32:56 SVN Log Entry	<p>r649 a1779153 2020-10-14 09:32:56 +1030 (Wed, 14 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>worked on 4th test case</p>
14 Oct 2020 09:32:10	Working ...
13 Oct 2020 23:59:59	13 Oct 2020 23:59:59
Missing Logbook Entry	Missing Logbook Entry
Missing SVN Commit	Missing SVN Commit
13 Oct 2020 20:21:19	Working ...
*** 2 Hours	*** 2 Hours ***
<p>13 Oct 2020 20:17:15</p> <p>Kind: Text, by: a1779153, from: 129_127_232_156</p>	<p>worked on 3rd test case implemented parse_while() and parse_term() to parse boolean term.</p>
13 Oct 2020 20:15:05 Web Submission, from: 129_127_232_156	Submitted Revision: 648 to Assignment 3 - Submit Here
13 Oct 2020 20:14:49 SVN Log Entry	<p>r648 a1779153 2020-10-13 20:14:49 +1030 (Tue, 13 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>worked on tests/03/Main.jack test case</p>
13 Oct 2020 20:14:00	Working ...
<p>13 Oct 2020 19:50:11</p> <p>Kind: Text, by: a1779153, from: 129_127_232_156</p>	<p>worked on tests/01/Main.jack test case. implemented necessary functions like parse_function(), parse_var_decs() and others required to pass the above test case. changed the return value of function parse_var_dec() it returns vector<ast> because if have shifted multiple vars from function parse_var_decs() to function parse_var_dec() to make the task easier. Also, I have created 2 symbol tables one for global/ class variables and other to store local variable. I also have created function fatal() which was given in the introduction video but was not present in the startup file.</p>
<p>13 Oct 2020 19:44:29</p> <p>Kind: Text, by: a1779153, from: 129_127_232_156</p>	<p>Initialised logbook.</p>
13 Oct 2020 19:43:31 Web Submission, from: 129_127_232_156	Submitted Revision: 647 to Assignment 3 - Submit Here
13 Oct 2020 19:42:58 SVN Log Entry	<p>r647 a1779153 2020-10-13 19:42:58 +1030 (Tue, 13 Oct 2020) 1 line</p> <p>Changed paths:</p> <p>M /2020/s2/cs/assignment3/parser.cpp</p> <p>M /2020/s2/cs/assignment3/updates/log</p> <p>worked on tests/01/Main.jack testcase</p>

Missing SVN Commit	Missing SVN Commit
13 Oct 2020 19:42:01	Working ...
*** 1 Hour	*** 1 Hour ***
13 Oct 2020 19:07:21	Working ...
Missing Logbook Entry	Missing Logbook Entry
Missing SVN Commit	Missing SVN Commit
13 Oct 2020 17:01:38	Working ...
13 Oct 2020 16:45:14 Web Submission, from: 129_127_232_156	Submitted Revision: 644 to Assignment 3 - Submit Here
13 Oct 2020 16:44:54 SVN Log Entry	r644 a1779153 2020-10-13 16:44:54 +1030 (Tue, 13 Oct 2020) 1 line Changed paths: A /2020/s2/cs/assignment3/codegen.cpp A /2020/s2/cs/assignment3/lint.cpp A /2020/s2/cs/assignment3/optimiser-r.cpp A /2020/s2/cs/assignment3/parser.cpp A /2020/s2/cs/assignment3/pretty.cpp A /2020/s2/cs/assignment3/tests A /2020/s2/cs/assignment3/updates/assignment3-20201005-113205.zip M /2020/s2/cs/assignment3/updates/installer.bash M /2020/s2/cs/assignment3/updates/log Assignment 3 Startup Files
13 Oct 2020 16:42:49	Working ...
Skipped 65 days ...	Skipped 65 days ...
07 Aug 2020 23:59:59	07 Aug 2020 23:59:59
07 Aug 2020 00:04:44 SVN Log Entry	r504 a1779153 2020-08-07 00:04:44 +0930 (Fri, 07 Aug 2020) 1 line Changed paths: A /2020/s2/cs/assignment3 A /2020/s2/cs/assignment3/Makefile A /2020/s2/cs/assignment3/updates A /2020/s2/cs/assignment3/updates/installer.bash A /2020/s2/cs/assignment3/updates/log A /2020/s2/cs/assignment3/updates/updater.bash cs-directory-structure
Estimated Total Time 19 hours	Estimated Total Time 19 hours

Authorised by: Head of School, School of Computer Science

Maintained by: School of Computer Science

Last Updated: 8 Feb 2020

CRICOS Provider Number 00123M