**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI**

**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS**

**Compiler Construction (CS F363)**

**II Semester 2019-20**

**Compiler Project (Stage-1 Submission)**

**Coding Details**

**Group No.**

**(February 24, 2020)**

1. IDs and Names of team members

ID: 2016B3A70398P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name: Ayush Vachaspati \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID: 2016B1A70938P \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name: Indraneel Ghosh\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID: 2016B1A70926P \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name: G Adityan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Mention the names of the Submitted files :

1 makefile\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7\_nary\_tree.c\_\_\_\_\_\_\_\_\_\_\_\_\_ 13\_\_\_\_ stack.h \_\_\_

2\_lexDef.h\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8\_parser.c\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14\_\_\_\_\_ nary\_tree.h \_\_\_\_\_

3\_color.c\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9\_\_set.c\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15\_\_\_\_\_hashtable.h\_\_\_\_\_\_\_\_\_\_\_

4\_driver.c\_\_\_\_\_\_\_\_\_\_\_\_\_ 10\_stack.c\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 16\_\_\_\_color.h\_\_\_\_\_\_\_\_\_\_\_\_

5\_hashtable.c\_\_\_\_\_\_\_\_\_\_ 11\_productions.txt\_\_\_\_\_\_\_\_\_\_ 17\_\_\_\_\_parser.h\_\_\_\_\_\_\_\_\_\_\_

6\_lexer.c\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12\_set.h\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 18\_\_\_\_\_\_parserDef.h\_\_\_\_\_\_\_\_\_\_\_

19 lexerDef.h 20 lexer.h 21 parsetest.txt 22 coding details stage1.docx

1. Total number of submitted files: \_22\_\_\_\_\_\_\_\_\_\_ (All files should be in **ONE folder** named exactly as Group\_#, # is your group number)
2. Have you mentioned your names and IDs at the top of each file (and commented well)? (Yes/ no) \_\_\_\_\_\_Yes\_ [Note: Files without names will not be evaluated]
3. Have you compressed the folder as specified in the submission guidelines? (yes/no)\_\_\_\_yes\_\_\_\_\_\_\_\_
4. **Lexer Details:**
   1. Technique used for pattern matching: \_\_\_\_\_\_\_\_\_\_\_\_Twin Buffer and DFA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. DFA implementation (State transition using switch case, graph, transition table, any other (specify):\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_switch case\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Keyword Handling Technique: \_\_\_\_\_\_Hashtable to store all keywords\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. Hash function description, if used for keyword handling:\_\_\_\_\_djb Hash Function: An algorithm produced by Professor Daniel J. Bernstein \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Have you used twin buffer? (yes/ no) \_\_\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Lexical error handling and reporting (yes/No):\_\_\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. Describe the lexical errors handled by you \_\_\_\_\_\_\_\_\_ID Length Error(If ID length>20 it is an error) Invalid output(print\_invalid\_OP\_error), Invalid number error (print\_invalid\_No\_error)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. Data Structure Description for tokenInfo (in maximum two lines):

\_\_\_\_\_\_\_\_\_//need to modify code a little\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* 1. Interface with parser Implemented\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Parser Details:** 
   1. **High Level Data Structure Description (in maximum three lines each, avoid giving C definitions used):**
      1. grammar : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + 1. parse table \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + 1. parse tree: (Describe the node structure also) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + 1. Parsing Stack node structure :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + 1. Any other (specify and describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* 1. **Parse tree** 
     1. Constructed (yes/no):\_Yes\_\_\_
     2. Printing as per the given format (yes/no): \_Yes\_\_\_
     3. Describe the order you have adopted for printing the parse tree nodes (in maximum two lines)

Inorder traversal with the order leftmost child->parent->all other children. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Grammar and Computation of First and Follow Sets** 
     1. Data structure for original grammar rules \_\_\_struct containing array of enum type and the size of rule\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     2. FIRST and FOLLOW sets computation automated (yes /no)\_\_\_\_\_\_\_\_\_Yes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     3. Data structure for representing sets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hashtable\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     4. Time complexity of computing FIRST sets \_\_\_\_\_\_O(n2\_) where n is the number of rules\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     5. Name the functions (if automated) for computation of First and Follow sets\_void makeFirstAndFollow(productions grammar, type start\_symbol), void getFirstSet(productions grammar), void getFollowSet(productions grammar) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     6. If computed First and Follow sets manually and represented in file/function (name that) \_\_\_\_\_\_ \_\_\_\_\_\_\_Automated\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. **Error Handling** 
     1. Attempted (yes/ no):\_\_Yes\_\_\_\_
     2. Printing errors (All errors/ one at a time) :\_\_\_\_One at a time\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     3. Describe the types of errors handled

Parser handles non terminal and terminal pair rule not exists, NT mismatch handled\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* + 1. Synchronizing tokens for error recovery (describe) Follow and First set of Non terminals used for synchronization as described in panic mode recovery.[Given in slides]
    2. Total number of errors detected in the given testcase t6(with\_syntax\_errors).txt \_ \_\_\_\_\_\_\_\_\_8/11 errors correctly detected and 8 incorrect errors due to panic mode recovery.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Compilation Details:**
   1. Makefile works (yes/no):\_\_\_\_\_\_yes\_\_\_\_\_
   2. Code Compiles (yes/ no):\_\_\_\_\_\_\_yes\_\_\_\_\_\_\_
   3. Mention the .c files that do not compile:\_\_\_\_N/A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Any specific function that does not compile:\_\_\_\_\_ N/A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Ensured the compatibility of your code with the specified gcc version(yes/no)\_\_yes\_\_\_\_\_\_\_\_\_\_
2. **Driver Details**: Does it take care of the options specified earlier(yes/no):\_\_\_yes\_\_\_\_\_\_\_\_
3. **Execution** 
   1. status (describe in maximum 2 lines):\_\_\_\_\_\_The code runs correctly for all test cases.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Execution time taken for
     + t1.txt (in ticks) \_\_2827\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_0.002827\_\_\_\_\_\_
     + t2.txt (in ticks) \_\_3500\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_\_0.003500\_\_\_\_\_\_
     + t3.txt (in ticks) \_\_4612\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_\_0.004612\_\_\_\_\_\_
     + t4.txt (in ticks) \_\_4756\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_\_0.004756\_\_\_\_\_\_
     + t5.txt (in ticks) \_\_7115\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_\_0.007115\_\_\_\_\_\_
     + t6.txt (in ticks) \_\_6738\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and (in seconds) \_\_\_\_\_\_0.006738\_\_\_\_\_\_
  2. Gives segmentation fault with any of the test cases (1-6) uploaded on the course page. If yes, specify the testcase file name:\_\_\_\_\_No error\_\_\_\_\_\_\_\_

1. Specify the language features your lexer or parser is not able to handle (in maximum one line)\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Are you availing the lifeline (Yes/No): \_\_No\_\_\_\_\_\_\_\_\_\_
3. Declaration: We, \_\_\_\_\_\_\_\_Ayush Vachaspati, Indraneel Ghosh, G Adityan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (your names) declare that we have put our genuine efforts in creating the compiler project code and have submitted the code developed only by our group. We have not copied any piece of code from any source. If our code is found plagiarized in any form or degree, we understand that a disciplinary action as per the institute rules will be taken against us and we will accept the penalty as decided by the department of Computer Science and Information Systems, BITS, Pilani. [Write your ID and names below]

ID: 2016B3A70398P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: Ayush Vachaspati \_\_\_\_\_\_\_\_\_\_

ID: 2016B1A70938P \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: Indraneel Ghosh\_\_\_\_\_\_\_\_\_\_\_\_

ID: 2016B1A70926P \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: G Adityan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24/02/2020

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Should not exceed 4 pages.