

**Compiler Construction: Principles and Practice**  
by Kenneth C. Louden

**Chapter 5 Exercise Answers**

**Ex. 5.1**

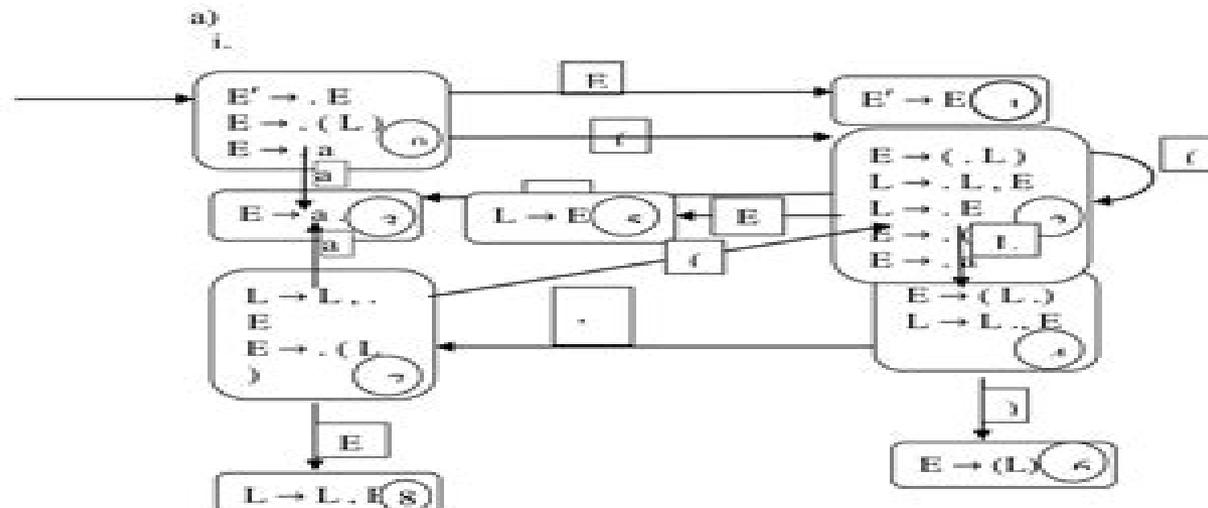
Consider the following grammar:

$$E \rightarrow (L) \mid a$$

$$L \rightarrow L, E \mid E$$

- I. Construct the DFA of LR(0) items for this grammar. (2)
- II. Construct the SLR(1) parsing table. (2)
- III. Is this grammar an LR(0) grammar? If not describe the LR(0) conflict. (2)
- IV. Show the parsing stack and the actions of an SLR(1) parser for the input string  $((a), a), (a))$ . (2)

**Solution:**



- ii. The following table uses the grammar rule numbering (1)  $A \rightarrow A(A)$  and (2)  $A \rightarrow \epsilon$ , and is based on the fact that  $Follow(A) = \{ (, ), \$ \}$ :

| State | Input |   |   |    |                       | Go to |   |
|-------|-------|---|---|----|-----------------------|-------|---|
|       | (     | ) | , | a  | \$                    | E     | L |
| 0     | S2    |   |   | S3 |                       | 1     |   |
| 1     |       |   |   |    | $r(E' \rightarrow E)$ |       |   |

# Exercise Solutions On Compiler Construction

**William McCastline Waite, Lynn Robert  
Carter**

## Exercise Solutions On Compiler Construction:

**An Introduction to Formal Languages and Automata** Peter Linz, Susan H. Rodger, 2022-02-18 This book is designed for an introductory course on formal languages automata computability and related matters *Software Engineering 2* Dines Bjørner, 2007-08-01 The art craft discipline logic practice and science of developing large scale software products needs a professional base The textbooks in this three volume set combine informally engineeringly sound approaches with the rigor of formal mathematics based approaches This volume covers the basic principles and techniques of specifying systems and languages It deals with modelling the semiotics pragmatics semantics and syntax of systems and languages modelling spatial and simple temporal phenomena and such specialized topics as modularity incl UML class diagrams Petri nets live sequence charts statecharts and temporal logics including the duration calculus Finally the book presents techniques for interpreter and compiler development of functional imperative modular and parallel programming languages This book is targeted at late undergraduate to early graduate university students and researchers of programming methodologies Vol 1 of this series is a prerequisite text Domain-Specific Languages Andrzej Wąsowski, Thorsten Berger, 2023-02-01 This textbook describes the theory and the pragmatics of using and engineering high level software languages also known as modeling or domain specific languages DSLs for creating quality software This includes methods design patterns guidelines and testing practices for defining the syntax and the semantics of languages While remaining close to technology the book covers multiple paradigms and solutions avoiding a particular technological silo It unifies the modeling the object oriented and the functional programming perspectives on DSLs The book has 13 chapters Chapters 1 and 2 introduce and motivate DSLs Chapter 3 kicks off the DSL engineering lifecycle describing how to systematically develop abstract syntax by analyzing a domain Chapter 4 addresses the concrete syntax including the systematic engineering of context free grammars Chapters 5 and 6 cover the static semantics with basic constraints as a starting point and type systems for advanced DSLs Chapters 7 Transformation 8 Interpretation and 9 Generation describe different paradigms for designing and implementing the dynamic semantics while covering testing and other kinds of quality assurance Chapter 10 is devoted to internal DSLs Chapters 11 to 13 show the application of DSLs and engage with simpler alternatives to DSLs in a highly distinguished domain software variability These chapters introduce the underlying notions of software product lines and feature modeling The book has been developed based on courses on model driven software engineering MDSE and DSLs held by the authors It aims at senior undergraduate and junior graduate students in computer science or software engineering Since it includes examples and lessons from industrial and open source projects as well as from industrial research practitioners will also find it a useful reference The numerous examples include code in Scala 3 ATL Alloy C F Groovy Java JavaScript Kotlin OCL Python QVT Ruby and Xtend The book contains as many as 277 exercises The associated code repository facilitates learning and using the examples in a course **Design and Construction of Compilers** Robin

Hunter,1983 The compilation process Language definition Lexical analysis Context free grammars and top down syntax analysis Bottom up syntax analysis Embedding actions in syntax Compiler design Symbol and mode tables Storage allocation Code generation Generation of machine code Error recovery and diagnostics Writing reliable compilers **An Introduction to Compiler Construction** William McCastline Waite,Lynn Robert Carter,1993 **The Art of Differentiating Computer Programs** Uwe Naumann,2012-01-26 In this entry level book on algorithmic also known as automatic differentiation AD the author covers the mathematical underpinnings as well as applications to real world numerical simulation programs Readers will find many examples and exercises including hints to solutions A supplementary website contains software sources additional exercises useful links and errata **Modern Multithreading** Richard H. Carver,Kuo-Chung Tai,2005-11-28 Master the essentials of concurrent programming including testingand debugging This textbook examines languages and libraries for multithreadedprogramming Readers learn how to create threads in Java and C and develop essential concurrent programming and problem solvingskills Moreover the textbook sets itself apart from othercomparable works by helping readers to become proficient in keytesting and debugging techniques Among the topics covered readersare introduced to the relevant aspects of Java the POSIX Pthreadslibrary and the Windows Win32 Applications ProgrammingInterface The authors have developed and fine tuned this book through theconcurrent programming courses they have taught for the past twentyyears The material which emphasizes practical tools andtechniques to solve concurrent programming problems includesoriginal results from the authors research Chaptersinclude Introduction to concurrent programming The critical section problem Semaphores and locks Monitors Message passing Message passing in distributed programs Testing and debugging concurrent programs As an aid to both students and instructors class libraries havebeen implemented to provide working examples of all the materialthat is covered These libraries and the testing techniques theysupport can be used to assess student written programs Each chapter includes exercises that build skills in programwriting and help ensure that readers have mastered the chapter skey concepts The source code for all the listings in the text andfor the synchronization libraries is also provided as well asstartup files and test cases for the exercises This textbook is designed for upper level undergraduates andgraduate students in computer science With its abundance ofpractical material and inclusion of working code coupled with anemphasis on testing and debugging it is also a highly usefulreference for practicing programmers

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