

Compiler Construction: Principles and Practice
by Kenneth C. Loudon

Chapter 5 Exercise Answers

Ex. 5.1

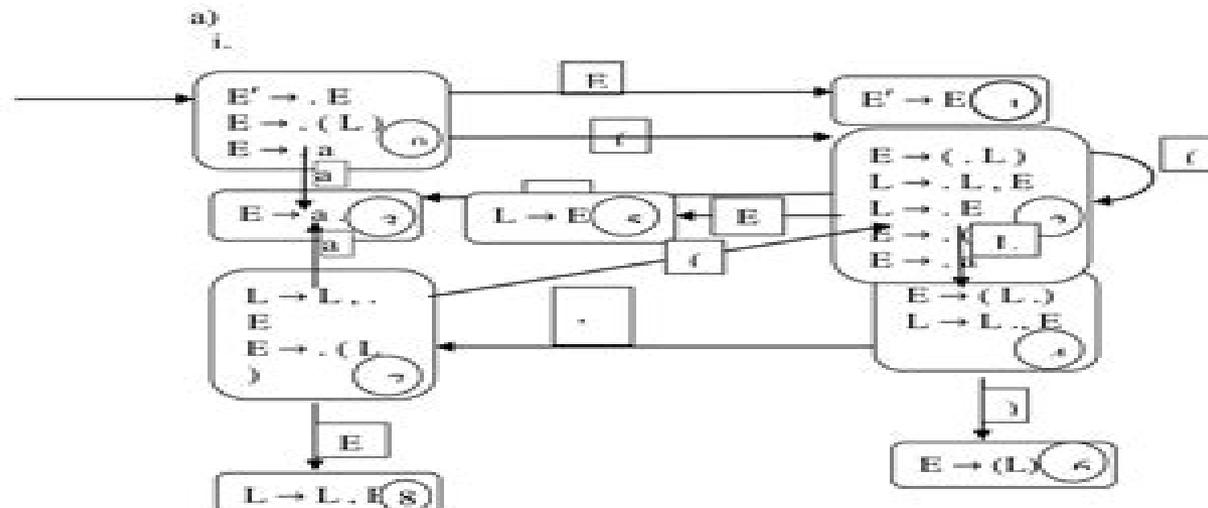
Consider the following grammar:

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

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

- 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' → E)		

Exercise Solutions On Compiler Construction

Ying Liu



Exercise Solutions On Compiler Construction:

This book delves into Exercise Solutions On Compiler Construction. Exercise Solutions On Compiler Construction is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Exercise Solutions On Compiler Construction, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Exercise Solutions On Compiler Construction
 - Chapter 2: Essential Elements of Exercise Solutions On Compiler Construction
 - Chapter 3: Exercise Solutions On Compiler Construction in Everyday Life
 - Chapter 4: Exercise Solutions On Compiler Construction in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Exercise Solutions On Compiler Construction. This chapter will explore what Exercise Solutions On Compiler Construction is, why Exercise Solutions On Compiler Construction is vital, and how to effectively learn about Exercise Solutions On Compiler Construction.
 3. In chapter 2, this book will delve into the foundational concepts of Exercise Solutions On Compiler Construction. The second chapter will elucidate the essential principles that need to be understood to grasp Exercise Solutions On Compiler Construction in its entirety.
 4. In chapter 3, this book will examine the practical applications of Exercise Solutions On Compiler Construction in daily life. The third chapter will showcase real-world examples of how Exercise Solutions On Compiler Construction can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Exercise Solutions On Compiler Construction in specific contexts. This chapter will explore how Exercise Solutions On Compiler Construction is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Exercise Solutions On Compiler Construction. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Exercise Solutions On Compiler Construction.

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