

Theory of Automata

Automata

The term "Automata" is derived from the Greek word "αὐτόματου" which means "self-acting".

An automaton with a finite number of states is called a **Finite Automaton (FA)** or **Finite State Machine (FSM)**.

Introduction to languages

There are two types of languages

- Formal Languages (Syntactic languages)
- Informal Languages (Semantic languages)

Alphabets

A finite non-empty set of symbols (called letters), is called an alphabet. It is denoted by Σ (Greek letter sigma).

Note

Empty string or null string Sometimes a string with no symbol at all is used, denoted by (Small Greek Letter Lambda) λ or (Capital Greek letter Lambda) Λ , is called an empty string or null string.

Strings

Concatenation of finite number of letters from the alphabet is called a string.

Example

If $\Sigma = \{a,b\}$ then

a, abab, aaabb, ababababababababab

Words

Words are strings belonging to some language.

Example

If $\Sigma = \{x\}$ then a language L can be defined as

$L = \{x^n : n=1,2,3,\dots\}$ or $L = \{x,xx,xxx,\dots\}$

Here x,xx,\dots are the words of L.

- All words are strings, but all strings are not words.

While defining an alphabet of letters consisting of more than one symbols, no letter should be started with the letter of the same alphabet i.e. one letter should not be the prefix of another. However, a letter may be ended in a letter of same alphabet.

$\Sigma_1 = \{B, aB, bab, d\}$

$\Sigma_2 = \{B, Ba, bab, d\}$

Σ_1 is a valid alphabet while Σ_2 is an in-valid alphabet.

Length of Strings

The length of string s, denoted by $|s|$, is the number of letters in the string.

Example

$\Sigma = \{a,b\}$

$s = ababa$

$|s| = 5$

Reverse of a String

The reverse of a string s denoted by $Rev(s)$ or s^r , is obtained by writing the letters of s in reverse order.

Defining Languages

The languages can be defined in different ways, such as Descriptive definition, Recursive definition, using Regular Expressions(RE) and using Finite Automaton(FA) etc.

Descriptive definition of language

The language is defined, describing the conditions imposed on its words.

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Table of Contents Automata Theory Lecture Notes

1. Understanding the eBook Automata Theory Lecture Notes
 - The Rise of Digital Reading Automata Theory Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Automata Theory Lecture Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automata Theory Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automata Theory Lecture Notes
 - Personalized Recommendations
 - Automata Theory Lecture Notes User Reviews and Ratings
 - Automata Theory Lecture Notes and Bestseller Lists
5. Accessing Automata Theory Lecture Notes Free and Paid eBooks
 - Automata Theory Lecture Notes Public Domain eBooks
 - Automata Theory Lecture Notes eBook Subscription Services
 - Automata Theory Lecture Notes Budget-Friendly Options
6. Navigating Automata Theory Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Automata Theory Lecture Notes Compatibility with Devices
 - Automata Theory Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automata Theory Lecture Notes
 - Highlighting and Note-Taking Automata Theory Lecture Notes
 - Interactive Elements Automata Theory Lecture Notes
8. Staying Engaged with Automata Theory Lecture Notes

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automata Theory Lecture Notes
9. Balancing eBooks and Physical Books Automata Theory Lecture Notes
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automata Theory Lecture Notes
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Automata Theory Lecture Notes
- Setting Reading Goals Automata Theory Lecture Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Automata Theory Lecture Notes
- Fact-Checking eBook Content of Automata Theory Lecture Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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