

Non-Modifying Sequence Operations

`min_element(begin, end) → minimum`



`minmax_element(begin, end) → (minimum, maximum)`



`any_of(begin, end, f()) → true, if f() yields true for any of the elements in the input range`
`all_of(begin, end, f()) → true if f() yields true for all of the elements in the input range`
`none_of(begin, end, f()) → false otherwise`

`find_if(begin, end, f()) → #1st match`
`find(begin, end, value) → #end if no match`

`count_if(begin, end, f()) → number of occurrences`
`count(begin, end, value) → #`

`equal(begin1, end1, begin2) → true if all elements in both ranges are equal`

`mismatch(begin1, end1, begin2) → {#mismatch_1st, #mismatch_2nd}`

`search(begin1, end1, begin2, end2) → #1st occurrence of sequence 2 inside sequence 1`
`#end1 otherwise`

Binary Search On Sorted Sequences $\approx O(\log n)$

`lower_bound(begin, end, value) → #1st element not < value`
`#end if no such element exists`

`upper_bound(begin, end, value) → #1st element > value`
`#end if no such element exists`

`equal_range(begin, end, value) → {#1st element <= value, #end if none such found}, {#1st element > value or #end if none such found}`

Reordering Elements

`reverse(begin, end)`



`sort(begin, end, f())`
`sort(begin, end, std::less)`



`stable_sort(begin, end, compare())`
`compare(a, b) → bool`
 "stable" → preserves the relative order of equivalent elements

`nth_element(begin, nth, end)`
`nth` → `nth` element in sorted sequence

`partition(begin, end, f()) → #part2`

`rotate(begin, newfst, end) → #old_begin`

`next_permutation(begin, end) → true if new permutation is lexicographically greater`

`shuffle(begin, end, random_engine)`

Manipulate Sorted Sequences $\approx O(n)$

`merge(it1beg, it1end, it2beg, it2end, out)`

`set_union(it1beg, it1end, it2beg, it2end, out)`

Changing Values

`copy(begin, end, out)`



`transform(begin, end, out, f())`



`generate(begin, end, f())`



`replace(begin, end, old, new)`



`replace_if(begin, end, f(), new)`



`remove(begin, end, value) → #end_of_remove_if(begin, end, f()) → remaining`



`unique(begin, end) → #end_of_remaining`



`erase(container, value) → erased_count`



Numeric Algorithms

`reduce(begin, end, init, f())`
`reduce(begin, end, w, f()) → w + a1 + a2 + ... + an`

`transform_reduce(it1beg, it1end, it2beg, it2end, out, f())`
`transform_reduce(it1beg, it1end, it2beg, it2end, out, f(), w)`
`transform_reduce(it1beg, it1end, it2beg, it2end, out, f(), w, f_combine)`

`inclusive_scan(begin, end, out, f())`
`inclusive_scan(begin, end, out, f(), w)`

`exclusive_scan(begin, end, out, f())`
`exclusive_scan(begin, end, out, f(), w)`

Data Structures And Algorithms In C Plus Plus

Ian Pickup



Data Structures And Algorithms In C Plus Plus:

Data Structures And Algorithms In C Plus Plus Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Data Structures And Algorithms In C Plus Plus**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Data Structures And Algorithms In C Plus Plus

1. Understanding the eBook Data Structures And Algorithms In C Plus Plus
 - The Rise of Digital Reading Data Structures And Algorithms In C Plus Plus
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Structures And Algorithms In C Plus Plus
 - 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 a Data Structures And Algorithms In C Plus Plus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Structures And Algorithms In C Plus Plus
 - Personalized Recommendations
 - Data Structures And Algorithms In C Plus Plus User Reviews and Ratings

- Data Structures And Algorithms In C Plus Plus and Bestseller Lists
- 5. Accessing Data Structures And Algorithms In C Plus Plus Free and Paid eBooks
 - Data Structures And Algorithms In C Plus Plus Public Domain eBooks
 - Data Structures And Algorithms In C Plus Plus eBook Subscription Services
 - Data Structures And Algorithms In C Plus Plus Budget-Friendly Options
- 6. Navigating Data Structures And Algorithms In C Plus Plus eBook Formats
 - ePub, PDF, MOBI, and More
 - Data Structures And Algorithms In C Plus Plus Compatibility with Devices
 - Data Structures And Algorithms In C Plus Plus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Structures And Algorithms In C Plus Plus
 - Highlighting and Note-Taking Data Structures And Algorithms In C Plus Plus
 - Interactive Elements Data Structures And Algorithms In C Plus Plus
- 8. Staying Engaged with Data Structures And Algorithms In C Plus Plus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Structures And Algorithms In C Plus Plus
- 9. Balancing eBooks and Physical Books Data Structures And Algorithms In C Plus Plus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Structures And Algorithms In C Plus Plus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Data Structures And Algorithms In C Plus Plus
 - Setting Reading Goals Data Structures And Algorithms In C Plus Plus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Data Structures And Algorithms In C Plus Plus
 - Fact-Checking eBook Content of Data Structures And Algorithms In C Plus Plus
 - 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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