

DATA STRUCTURE USING C

PRACTICAL

Q1. Implementation of insertion sort, Selection sort and Merge sort.

Ans.

INSERTION SORT

Algorithm:

1. Set N = Length of Array
2. Set I = 1
3. Set Value = Array[I]
4. Set J = I - 1
5. J >= 0 AND Array[J] > Value
6. Set Array [J + 1] = Array [J]
7. Decrement J
8. J--
9. Array[J + 1] = Value
10. Increment I (I++)
11. I < N

The array is sorted.

Code:

```
#include <math.h>
#include <stdio.h>
void insertionSort(int arr[], int n)
{
    int i, key, j;
    for (i = 1; i < n; i++) {
        key = arr[i];
        j = i - 1;
        while (j >= 0 && arr[j] > key) {
            arr[j + 1] = arr[j];
            j = j - 1;
        }
        arr[j + 1] = key;
    }
}
void printArray(int arr[], int n)
{
    int i;
```

Data Structure Using C Programming 1st Edition

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Table of Contents Data Structure Using C Programming 1st Edition

1. Understanding the eBook Data Structure Using C Programming 1st Edition
 - The Rise of Digital Reading Data Structure Using C Programming 1st Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Structure Using C Programming 1st Edition
 - 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 Data Structure Using C Programming 1st Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Structure Using C Programming 1st Edition
 - Personalized Recommendations
 - Data Structure Using C Programming 1st Edition User Reviews and Ratings
 - Data Structure Using C Programming 1st Edition and Bestseller Lists

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 - Data Structure Using C Programming 1st Edition Public Domain eBooks
 - Data Structure Using C Programming 1st Edition eBook Subscription Services
 - Data Structure Using C Programming 1st Edition Budget-Friendly Options
6. Navigating Data Structure Using C Programming 1st Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Data Structure Using C Programming 1st Edition Compatibility with Devices
 - Data Structure Using C Programming 1st Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Structure Using C Programming 1st Edition
 - Highlighting and Note-Taking Data Structure Using C Programming 1st Edition
 - Interactive Elements Data Structure Using C Programming 1st Edition
8. Staying Engaged with Data Structure Using C Programming 1st Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Structure Using C Programming 1st Edition
9. Balancing eBooks and Physical Books Data Structure Using C Programming 1st Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Structure Using C Programming 1st Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Data Structure Using C Programming 1st Edition
 - Setting Reading Goals Data Structure Using C Programming 1st Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Data Structure Using C Programming 1st Edition
 - Fact-Checking eBook Content of Data Structure Using C Programming 1st Edition
 - 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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