Program 11 Design and implement C/C++ Program to sort a given set of n integer elements using Merge Sort method and compute its time complexity. Run the program for varied values of n> 5000, and record the time taken to sort. Plot a graph of the time taken versus n. The elements can be read from a file or can be generated using the random number generator.

Mergesort

```c
# include <stdio.h>
# include <conio.h>
#include<time.h>
void Merge(int a[], int low, int mid, int high)
{
    int i, j, k, b[500];
    i=low; j=mid+1; k=low;
    while ( i<=mid && j<=high )
    {
        if( a[i] <= a[j] )
            b[k++] = a[i++] ;
        else
            b[k++] = a[j++] ;
    }
    while (i<=mid)
        b[k++] = a[i++] ;
    while (j<=high)
        b[k++] = a[j++] ;
    for(k=low; k<=high; k++)
        a[k] = b[k];
}
void MergeSort(int a[], int low, int high)
{
    int mid;
    if(low >= high)
        return;
    mid = (low+high)/2 ;
    MergeSort(a, low, mid);
    MergeSort(a, mid+1, high);
    Merge(a, low, mid, high);
}
void main()
{
    int n, a[500],k;
    clock_t st,et;
    double ts;
    clrscr();
    printf("\n Enter How many Numbers:");
    scanf("%d", &n);
```

Algorithm Analysis And Design Lab Manual

Samuel A. Rebelsky

Algorithm Analysis And Design Lab Manual:

C & Data Structures: With Lab Manual, 2/e V.V. Muniswamy,2009-10-17 This book is designed for the way we learn This text is intended for one year or two semester course in C Programming and Data Structures This is a very useful guide for undergraduate and graduate engineering students Its clear analytic explanations in simple language also make it suitable for study by polytechnic students Beginners and professionals alike will benefit from the numerous examples and extensive exercises developed to guide readers through each concept Step by step program code clarifies the concept usage and syntax of C language constructs and the underlying logic of their applications Data structures are treated with algorithms trace of the procedures and then programs All data structures are illustrated with simple examples and diagrams The concept of learning by example has been emphasized throughout the book Every important feature of the language is illustrated in depth by a complete programming example Wherever necessary pictorial descriptions of concepts are included to facilitate better understanding The common C programs for the C Data Structures Laboratory practice appended at the end of the book is a new feature of this edition Exercises are included at the end of each chapter The exercises are divided in three parts i multiple choice questions which test the understanding of the fundamentals and are also useful for taking competitive tests ii questions and answers to help the undergraduate students and iii review questions and problems to enhance the comprehension of the subject Questions from GATE in Computer Science and Engineering are included to support the students who will be taking GATE examination **The Art of Getting Computer Science PhD** Emdad Ahmed,2013-02-06 The Art of Getting Computer Science PhD is an autobiographical book where Emdad Ahmed highlighted the experiences that he has gone through during the past 25 years 1988 2012 in various capacities both as Computer Science student as well as Computer Science faculty at different higher educational institutions in USA Australia and Bangladesh This book will be a valuable source of reference for computing professional at large In the 150 pages book Emdad Ahmed tells the story in a lively manner balancing computer science hard job and life *Lab Manual* Walter Savitch,Charles Hoot,2004-05 **C++ Programming** Judy Scholl,2005 **C++ Programming: from Problem Analysis to Program Design** Judy Scholl,2006-02 This Lab Manual for C Programming From Problem Analysis to Program Design has been updated in accordance with the first seventeen chapters of the third edition of Dr D S Malik s text Ideal for a lab setting this lab manual continues to offer a hands on approach for tackling difficult introductory C programming topics **Problem Solving with Computers** Greg W. Scragg,1997 An introduction to computer science focusing on the methods of problem solving rather than on the hardware or software tools employed as aids for problem solving Coverage includes algorithms hypermedia and telecomputing Includes definitions and exercises throughout chapters and uses feminine p *Scientific and Technical Aerospace Reports* ,1990 Java 1.5 Program Design James P. Cohoon,2004 Publisher's Monthly ,1999 Experiments in Java Samuel A. Rebelsky,2000 This lab manual is appropriate for any Introduction to Programming course that uses the

Java programming language Its hands on exercises are intended to help students improve their understanding of the fundamental structures in Java The order of the topics in this manual reflects an objects first approach with the goal of helping students understand the object oriented paradigm This manual is divided into three parts The first part presents the core of the Java language These six sessions provide experience with core features and principles of the Java programming language They provide enough breadth and depth for readers to learn more of Java on their own or in later courses The second part of the manual helps students explore issues pertaining to algorithms Recursion is considered here as well important searching algorithms Finally methods of algorithm analysis are examined The final part of the manual covers a number of additional topics that are not decribed in the core sessions such as graphics inheritance and object design Features Includes eighteen laboratories each with Introductory Material New Skills that students will develop in the exercise Prerequisite Skills to ensure students are prepared for the session Required Files to use modify and extend in the exercises Discussion of topics covered in the laboratory session Experiments to reinforce the discussion Post Laboratory Problems to enhance understanding Notes on selected problems Focuses on applications but includes optional material on applets Provides an objects first approach to working with Java Written on the Java 2 platform Designed to work with any Java textbook 0201612674B04062001 Government Reports Announcements & Index ,1983 Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff,R R Bowker Publishing,1996-09 **High-Performance VLSI Signal Processing Innovative Architectures and Algorithms, Algorithms and Architectures** K. J. Ray Liu,Kung Yao,1998 Electrical Engineering Signal Processing High Performance VLSI Signal Processing Innovative Architectures and Algorithms Volume 1 Algorithms and Architectures The first volume in a two volume set High Performance VLSI Signal Processing Innovative Architectures and Algorithms brings together the most innovative papers in the field focused introductory material and extensive references The editors present timely coverage of algorithm and design methodologies with an emphasis on today s rapidly evolving high speed architectures for VLSI implementations These volumes will serve as vital resources for engineers who want a comprehensive knowledge of the extremely interdisciplinary field of high performance VLSI processing The editors provide a practical understanding of the merits of total system design through an insightful synergistic presentation of methodology architecture and infrastructure Each volume features Major papers that span the wide range of research areas in the field Chapter introductions including historical perspectives Numerous applications oriented design examples Coverage of current and future technological trends Thorough treatment of high speed architectures *Interface* ,1988 **Scientific and Technical Books and Serials in Print** ,1989 **Proceedings, Eighth International Conference on Intelligent Systems for Molecular Biology** Russ Altman,2000 **Energy** ,1983 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International

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