

DATA STRUCTURES MADE EASY IN C

(for BCA and B.Sc. Computer Science)

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P R E F A C E

This book is written to cater the needs of undergraduate students of Bachelor of Computer Applications and Bachelor of Science. The content of this book will be a hand book for those who want to master Data Structures using C language from the beginner's level of understanding. Data Structure is a way to organize, manage and store the data in a format that enables efficient access and modification. More precisely, data structure is a collection of data values, the relationships among them, and the functions or operations that can be applied to the data. Keeping this in mind the fundamentals of data structures is explained in an understandable manner for the beginners in this book.

The book covers the concepts of Data Structures in Five units pertaining to the undergraduate level academics. Unit 1 reveals the Introduction to Data Structures. Unit 2 deals with various Searching and Sorting techniques. Unit 3 explains the concepts of Stacks and Queues. Unit 4 focusses on Linked Lists and Unit 5 covers the concepts of the Trees. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them. Question bank and practical programs are provided with each unit aiming to help the readers to understand and test their knowledge. Suggestions for improvement of the book will be appreciatively accepted and may be sent to maryjacob05@gmail.com.

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 *Mary Jacob*

 *K.Kalaiselvi*

Dedicated this work

to

All Our Students

CONTENTS

UNIT 1 : INTRODUCTION TO DATA STRUCTURES.....	1
CH 1 INTRODUCTION.....	2
DEFINITION.....	2
CLASSIFICATION OF DATA STRUCTURES	2
PRIMITIVE AND NON-PRIMITIVE.....	2
OPERATIONS ON DATA STRUCTURES.....	8
CH 2 POINTERS	12
DEFINITION.....	12
ACCESSING THE ADDRESS OF A VARIABLE	12
DECLARING AND INITIALIZING POINTERS.....	13
ACCESSING A VARIABLE THROUGH ITS POINTER.....	14
CH 3 DYNAMIC MEMORY ALLOCATION	28
DEFINE STATIC AND DYNAMIC MEMORY ALLOCATION	28
MEMORY ALLOCATION FUNCTIONS	30
MALLOC.....	31
CALLOC.....	33
REALLOC.....	35
FREE 38	
CH 4 RECURSION	42
DEFINITION.....	42
TYPES	42
RECURSION IN C.....	44
WRITING RECURSIVE PROGRAMS.....	44
FIBONACCI SERIES.....	45
GCD 47	
BINOMIAL COEFFICIENT.....	51
TOWERS OF HANOI.....	52
<i>QUESTIONS.....</i>	<i>52</i>

UNIT 2 : SEARCHING AND SORTING..... 58

CH 1 SEARCHING 59
BASIC SEARCHING TECHNIQUES..... 59
SEQUENTIAL SEARCH..... 59
BINARY SEARCH..... 64
ITERATIVE AND RECURSIVE METHODS 66
COMPARISON SEQUENTIAL AND BINARY SEARCH 67

CH 2 SORTING 69
DEFINITION..... 69
DIFFERENT TYPES..... 69
BUBBLE SORT 70
INSERTION SORT..... 73
SELECTION SORT..... 76
QUICK SORT..... 78
MERGE SORT 84
HEAP SORT 89
QUESTIONS 96

UNIT 3 : STACK AND QUEUE 97

CH 1 STACK..... 98
DEFINITION..... 98
ARRAY REPRESENTATION OF STACK 98
OPERATIONS ON STACK 102
POLISH NOTATION..... 109
REVERSE POLISH NOTATION 109
APPLICATIONS OF STACK 109
CONVERSION INFIX ARITHMETIC EXPRESSION TOPOSTFIX..... 110
EVALUATION OF POSTFIX EXPRESSION 114

CH 2 QUEUE 121
DEFINITION..... 121
ARRAY REPRESENTATION OF QUEUE..... 122
TYPES OF QUEUE 127
SIMPLE QUEUE 127
CIRCULAR QUEUE 131
DOUBLE ENDED QUEUE 139
PRIORITY QUEUE 147
QUESTIONS 157

UNIT 4:LINKED LIST 158

CH 1 CONCEPTS	159
DEFINITION.....	159
COMPONENTS OF LINKED LIST	159
REPRESENTATION OF LINKED LIST	159
ADVANTAGES AND DISADVANTAGES OF LINKED LIST	159
TYPES OF LINKED LIST	162
SINGLY LINKED LIST	162
DOUBLY LINKED LIST	162
CIRCULAR LINKED LIST	163
CIRCULAR DOUBLY LINKED LIST.....	164
CH 2 SINGLY LINKED LIST	169
CREATION.....	169
DISPLAY	173
COUNTING NUMBER OF NODES.....	173
SEARCH.....	175
INSERTION.....	181
DELETION	196
SORTING.....	205
CH 3 DOUBLE AND CIRCULAR LINKED LIST	220
DOUBLE LINKED LIST - IMPLEMENTATION	220
CIRCULAR LINKED LIST-IMPLEMENTATION	225
DOUBLE CIRCULAR LINKED LIST -IMPLEMENTATION.....	235
<i>QUESTIONS.....</i>	<i>241</i>

UNIT 5 : TREE 243

CH 1 TREE- DEFINITION.....	244
DEFINITION.....	244
BINARY TREE.....	246
ROOT, NODE, DEGREE OF A NODE ,DEGREE OF A TREE, . TERMINAL NODES, NON TERMINAL NODES, SIBLINGS,LEVEL, EDGE, PATH, DEPTH, PARENT NODE, ANCESTORS OF A NODE	247
COMPLETE BINARY TREE	248
CH 2 BINARY TREE	249
ARRAY AND LINKED REPRESENTATION OF BINARY TREE	249
CREATION OF BINARY TREE	250
TRAVERSAL OF BINARY TREE	252

PREORDER.....	252
INORDER	253
POSTORDER.....	253
CH 3 BINARY SEARCH TREE(BST).....	259
CREATION.....	260
SEARCH	263
TRAVERSALS	267
CH 4 GRAPHS.....	279
INTRODUCTION TO GRAPHS	280
DEFINITION.....	280
REPRESENTATIONS	280
GRAPH TRAVERSALS	281
BREADTH FIRST SEARCH (BFS)	281
DEPTH FIRST SEARCH (DFS)	282
<i>QUESTIONS</i>	284
 APPENDIX.....	 285
A1 DATA STRUCTURES PRACTICAL PROGRAMS	286
A2 DATA STRUCTURES QUESTION BANK	378
A3 DATA STRUCTURES MODEL QUESTION PAPERS	386