

ATL (2024-25 SEM I)

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CMR ENGINEERING COLLEGE

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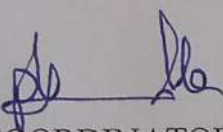
Kandlakoya (V), Medchal (M), Medchal - Malkajgiri (D)-501401

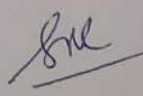


ATL (2024-25 SEM I)

SUMMARY OF ATL REPORT

S.NO	NAME OF DEPT	NAME OF LAB	ACADEMIC YEAR	YEAR & SEM	FACULTY INCHARGE
1	ECE	Data Structures through C+	2024-25	2-1	Mrs. Sudha Reddy (COIGN) Consultants Pvt Ltd.,Hyderabad.)
2	ECE	PYTHON PROGRAMMING	2024-25	3-1	Mrs. Sudha Reddy (COIGN) Consultants Pvt Ltd.,Hyderabad.)


COORDINATOR


HOD
HOD - ECE
CMR Engineering College
Kandlakoya (V), Medchal,
Hyd - 501 401



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Kandlakoya (V), Medchal (M), Medchal - Malkajgiri (D)-501401



ATL LAB(2024-25)

Data Structures through C++

II ECE I SEM

List of Programs

1. Polynomials and Multistack
2. Circular Queue
3. Binary Search operations
4. Double Linked Lists
5. Binary Search trees.
6. Hash table.
7. Breadth First Search Techniques
8. Prim's, Kruskal's, Dijkstra's Algorithms
9. Merge Sort and Quick Sort

ATL LAB(2024-25)

Python Programming

III ECE I SEM

List of Programs

1. Basics
2. Operations
3. Control Flow
4. DS
5. Files
6. Functions

ATL LAB TIME TABLE(2024-25)

S.NO	NAME OF DEPT	YEAR & SEM	CLASS	DAY	SESSION
1	ECE	2-1	II ECE SEC A&B	Tuesday	FORENOON(FN)
					AFTERNOON(AN)
2	ECE	3-1	III ECE SEC A&B	Thursday	FORENOON(FN)
					AFTERNOON(AN)

REPORT OF ATL CONDUCTION(2024-25)

III ECE I SEM

Experiment No	Topics	TITLE	DATE
1	Basics	a)Running instructions in Interactive interpreter and a Python Script b)Write a program to purposefully raise Indentation Error and Correct it	08/08/24
2	Operations	a)Write a program to compute distance between two points taking input from the user (Pythagorean Theorem) b)Write a program add.py that takes 2 numbers as command line arguments and prints its sum.	22/08/24
3	Control Flow	a)Write a Program for checking whether the given number is a even number or not. b)Using a for loop, write a program that prints out the decimal equivalents of 1/2, 1/3, 1/4, . . . , 1/10 c)Write a program using a for loop that loops over a sequence. What is sequence? d)Write a program using a while loop that asks the user for a number, and prints a countdown from that number to zero.	29/08/24
4	Control Flow - Continued	a) Find the sum of all the primes below two million.Each new term in the Fibonacci sequence is generated by adding the previous two terms. By starting with 1 and 2, the first 10 terms will be: 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ... b) By considering the terms in the Fibonacci sequence whose values do not exceed four million, find the sum of the even-valued terms.	15/09/24
5	DS	a)Write a program to count the numbers of characters in the string and store them in a dictionary data structure b)Write a program to use split and join methods in the string and trace a birthday with a dictionary data structure.	26/09/24
6	DS - Continued	a)Write a program combine_lists that combines these lists into a dictionary. b)Write a program to count frequency of characters in a given file. Can you use character frequency to tell	03/10/24

		whether the given file is a Python program file, C program file or a text file?	
7	Files	a)Write a program to print each line of a file in reverse order. b)Write a program to compute the number of characters, words and lines in a file.	17/10/24
8	Functions	a)Write a function ball_collide that takes two balls as parameters and computes if they are colliding. Your function should return a Boolean representing whether or not the balls are colliding. Hint: Represent a ball on a plane as a tuple of (x, y, r), r being the radius If (distance between two balls centers) <= (sum of their radius) then (they are colliding) b) Find mean, median, mode for the given set of numbers in a list	24/10/24

REPORT OF ATL CONDUCTION(2024-25)

II ECE I SEM

<u>S.NO</u>	<u>TOPIC</u>	<u>A&B Sections</u>	<u>Remarks</u>
1	a)addition of two polynomial expressions b) Multistack in a Single Array	20/08/24	
2	a)operations on Circular Queue b) Binary Search Operation using divide and conquers concept	03/09/24	
3	Doubly linked list	24/09/24	
4	Binary Search trees.	15/10/24	
5	Hash table.	22/10/24	
6	Breadth First Search Techniques	05/11/24	
7	Prim's, Kruskal's, Dijkstra's Algorithms	12/11/24	
8	Merge Sort and Quick Sort	19/11/24	

REPORT OF ATL ATTENDANCE(2024-25)

II ECE I SEM(A & B)

S.NO	H.T NO	20/08/24	03/09/24	24/09/24	15/10/24	22/10/24	05/11/24	12/11/24	19/11/24
1	238R1A0401	P	P	P	A	P	P	P	P
2	238R1A0402	A	P	P	P	P	P	P	P
3	238R1A0403	P	P	P	P	P	P	P	P
4	238R1A0404	P	P	P	P	A	P	P	P
5	238R1A0405	P	P	P	P	P	P	P	P
6	238R1A0406	P	P	P	P	P	A	P	P
7	238R1A0407	P	P	P	P	P	P	P	P
8	238R1A0408	P	P	A	P	P	P	P	P
9	238R1A0409	A	P	P	P	P	P	P	P
10	238R1A0410	P	P	P	P	A	P	P	P
11	238R1A0411	P	P	P	P	P	P	P	P
12	238R1A0412	P	P	P	P	P	P	P	P
13	238R1A0413	P	A	P	P	P	P	P	P
14	238R1A0414	P	P	P	P	P	P	P	P
15	238R1A0415	A	P	P	P	P	P	P	P
16	238R1A0416	P	P	P	P	P	P	P	P

17	238R1A0417	P	A	P	P	P	P	P	P
18	238R1A0418	P	P	P	P	P	P	P	P
19	238R1A0419	A	P	P	P	P	P	P	P
20	238R1A0420	P	P	P	P	P	P	P	P
21	238R1A0421	P	P	P	P	P	P	P	P
22	238R1A0422	P	A	P	P	P	P	P	P
23	238R1A0423	P	P	P	P	P	P	P	P
24	238R1A0424	A	P	P	P	P	P	P	P
25	238R1A0426	P	A	P	P	P	P	P	P
26	238R1A0427	P	P	P	P	P	P	P	P
27	238R1A0428	A	P	P	P	P	P	P	P
28	238R1A0429	P	P	P	P	P	P	P	P
29	238R1A0430	P	P	P	P	P	P	P	P
30	238R1A0431	P	A	P	P	P	P	P	P
31	238R1A0432	P	P	P	A	P	P	P	P
32	238R1A0433	P	P	P	P	P	P	P	P
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35	238R1A0436	P	P	P	P	P	P	P	P
36	238R1A0437	P	A	P	P	P	P	P	P
37	238R1A0438	P	P	P	P	P	P	A	P
38	238R1A0439	P	P	P	A	P	P	P	P

39	238R1A0440	P	P	P	P	P	P	P	P
40	238R1A0441	P	P	P	P	P	P	A	P
41	238R1A0442	P	P	P	A	P	P	P	P
42	238R1A0443	P	P	A	P	P	P	P	P
43	238R1A0444	P	P	P	P	P	P	P	P
44	238R1A0445	P	P	P	P	P	P	P	P
45	238R1A0446	P	P	A	P	P	P	P	P
46	238R1A0447	P	P	P	P	P	P	P	P
47	238R1A0448	P	P	A	P	P	P	P	P
48	238R1A0449	P	P	P	P	P	P	P	P
49	238R1A0450	P	P	P	P	P	A	P	P
50	238R1A0451	P	P	P	P	P	P	P	P
51	238R1A0452	P	P	P	P	P	P	P	P
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53	238R1A0454	P	P	P	P	P	P	P	P
54	238R1A0455	P	P	P	A	P	P	P	P
55	238R1A0456	P	P	P	P	P	P	P	P
56	238R1A0457	P	P	P	P	P	P	P	P
57	238R1A0458	P	P	P	P	P	P	P	P
58	238R1A0459	P	A	P	P	P	P	P	P
59	238R1A0460	P	P	P	P	P	A	P	P
60	238R1A0461	P	P	P	P	P	P	P	P

61	238R1A0462	P	P	P	P	P	P	P	P
62	238R1A0463	P	P	P	P	P	P	P	P
63	238R1A0464	P	P	P	P	A	P	P	P
64	238R1A0465	P	P	P	P	P	P	P	P
65	238R1A0466	P	P	P	P	P	P	P	P
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68	238R1A0469	P	P	A	P	P	P	P	P
69	238R1A0470	P	P	P	P	P	P	P	P
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71	238R1A0472	P	P	P	P	P	P	P	P
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76	238R1A0477	P	P	P	P	A	P	P	P
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78	238R1A0479	P	A	A	P	P	P	P	P
79	238R1A0480	P	P	P	P	P	P	P	P
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87	238R1A0489	P	P	P	P	P	P	P	P
88	238R1A0490	P	P	A	P	P	P	P	P
89	238R1A0491	P	P	P	P	P	P	A	P
90	238R1A0492	P	P	P	P	P	P	P	P
91	238R1A0493	P	P	P	P	P	P	P	P
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95	238R1A0497	P	P	P	P	P	P	P	P
96	238R1A0498	P	P	P	P	P	P	P	P
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103	238R1A04A5	P	A	P	P	P	P	P	P
104	238R1A04A6	P	P	P	P	P	P	P	P

105	238R1A04A8	P	P	P	A	P	P	P	P
106	238R1A04A9	P	P	P	P	P	P	P	A
107	238R1A04B0	P	A	P	P	P	P	P	P
108	238R1A04B1	P	P	P	A	P	P	P	P
109	238R1A04B2	P	P	P	P	P	P	P	P
110	238R1A04B3	P	P	P	P	P	P	P	P
111	238R1A04B4	P	P	P	P	A	P	P	P
112	238R1A04B5	P	P	P	P	P	P	A	P
113	238R1A04B6	P	P	P	P	P	P	P	P
114	238R1A04B7	P	P	P	P	P	P	P	P
115	238R1A04B8	P	P	P	P	P	P	P	A
116	238R1A04B9	P	P	A	P	P	P	P	P
117	238R1A04C0	A	P	P	P	P	P	P	P
118	238R1A04C1	P	P	P	P	P	P	P	P
119	238R1A04C2	P	P	P	P	P	A	P	P
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122	238R1A04C5	P	P	P	P	P	P	P	P
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135	248R5A0410	P	P	P	P	P	P	A	P
136	248R5A0411	P	P	P	P	P	P	P	P
137	248R5A0412	P	P	P	P	P	P	P	P
138	248R5A0413	A	P	P	P	P	A	P	P
139	248R5A0414	P	P	A	P	P	P	P	P

REPORT OF ATL ATTANDANCE(2024-25)

III ECE I SEM(SEC A&B)

S.NO	H.T NO	08/08/24	29/08/24	29/08/24	15/09/24	26/09/24	03/10/24	17/10/24	24/10/24
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2	228R1A0402	P	P	P	P	P	P	P	P
3	228R1A0403	P	P	P	P	P	P	P	P
4	228R1A0404	P	P	P	P	P	P	A	P
5	228R1A0405	P	A	P	P	P	P	P	P
6	228R1A0406	P	P	A	P	P	P	P	P
7	228R1A0407	P	P	P	P	P	P	A	P
8	228R1A0408	P	P	S	P	P	P	P	P
9	228R1A0409	A	P	P	P	P	P	A	P
10	228R1A0410	P	P	P	P	P	P	P	P
11	228R1A0411	P	P	P	P	P	P	P	P
12	228R1A0412	P	P	P	P	P	P	P	P
13	228R1A0413	A	P	P	P	P	P	A	P
14	228R1A0414	P	A	P	P	P	P	P	P
15	228R1A0415	P	P	P	P	P	P	P	P
16	228R1A0416	A	P	P	P	P	P	P	P
17	228R1A0417	P	P	P	P	P	P	P	P
18	228R1A0418	P	P	P	P	P	P	P	P

19	228R1A0419	P	P	P	P	P	P	P	P
20	228R1A0420	P	P	P	P	P	P	P	P
21	228R1A0421	P	P	A	P	P	P	P	P
22	228R1A0422	P	P	P	P	P	P	A	P
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24	228R1A0424	P	P	P	P	P	P	P	P
25	228R1A0425	P	P	P	P	P	P	P	P
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27	228R1A0427	P	P	P	P	P	P	A	P
28	228R1A0428	P	P	P	P	P	P	P	P
29	228R1A0429	P	P	P	P	P	P	P	P
30	228R1A0430	P	P	P	P	P	A	P	P
31	228R1A0431	P	P	P	P	P	P	P	P
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35	228R1A0435	P	P	P	P	P	P	P	P
36	228R1A0436	P	P	P	P	P	P	P	P
37	228R1A0437	P	P	P	P	P	P	P	P
38	228R1A0438	A	P	P	P	P	P	P	P
39	228R1A0439	P	P	P	P	P	P	A	P
40	228R1A0440	P	P	P	P	P	P	P	P
41	228R1A0441	P	P	P	P	P	P	A	P
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45	228R1A0445	A	P	P	P	P	P	P	P

46	228R1A0446	P	P	P	P	P	P	P	P
47	228R1A0447	P	P	P	P	P	P	P	P
48	228R1A0448	P	P	P	P	P	P	P	P
49	228R1A0449	P	P	P	P	P	P	P	P
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52	228R1A0452	P	P	P	P	P	P	A	A
53	228R1A0453	P	A	P	P	P	P	P	P
54	228R1A0454	P	P	P	P	P	P	P	P
55	228R1A0455	A	P	P	P	P	P	P	P
56	228R1A0456	P	P	P	P	P	A	P	A
57	228R1A0457	P	P	P	P	P	P	P	P
58	228R1A0458	P	P	P	P	A	P	P	P
59	228R1A0459	P	P	P	P	P	P	P	P
60	228R1A0460	P	P	P	P	P	P	P	P
61	228R1A0461	P	P	P	P	P	P	P	A
62	228R1A0462	P	P	P	P	P	P	P	P
63	228R1A0463	P	P	P	P	P	P	P	P
64	228R1A0464	P	P	P	P	P	P	P	P
65	228R1A0465	P	P	P	P	P	P	P	P
66	238R5A0401	P	P	P	P	P	P	P	P
67	238R5A0402	P	P	P	A	P	P	P	P
68	238R5A0403	P	P	P	P	P	P	P	A
69	238R5A0404	P	P	P	P	P	P	P	P
70	238R5A0405	P	P	P	P	P	P	P	P
71	238R5A0406	P	P	P	P	P	P	P	P
72	238R5A0407	P	P	P	P	P	P	A	P

73	228R1A0466	P	A	P	P	P	P	P	P
74	228R1A0467	P	P	P	P	P	P	P	P
75	228R1A0468	P	P	P	P	P	P	P	P
76	228R1A0469	P	P	P	P	P	P	P	P
77	228R1A0470	P	P	P	P	P	P	P	P
78	228R1A0471	P	P	P	P	P	P	P	A
79	228R1A0472	P	P	P	P	P	P	P	P
80	228R1A0473	P	P	P	A	P	P	P	P
81	228R1A0474	A	P	P	P	P	P	P	P
82	228R1A0475	P	P	P	P	P	P	P	P
83	228R1A0476	P	P	P	P	P	P	P	P
84	228R1A0477	P	P	P	P	P	P	P	A
85	228R1A0478	P	P	P	P	P	P	P	P
86	228R1A0479	P	P	P	P	P	P	P	P
87	228R1A0480	P	P	P	P	P	P	P	P
88	228R1A0481	P	P	P	P	A	P	P	P
89	228R1A0482	P	P	P	P	P	P	P	P
90	228R1A0483	P	P	P	P	P	P	P	P
91	228R1A0484	P	P	P	P	P	P	P	P
92	228R1A0485	P	P	P	P	P	P	P	P
93	228R1A0486	P	P	P	P	P	P	A	P
94	228R1A0487	P	P	P	P	P	P	P	P
95	228R1A0488	A	P	P	P	A	P	P	P
96	228R1A0489	P	P	P	P	P	P	P	A
97	228R1A0490	P	P	P	P	P	P	P	P
98	228R1A0491	P	P	P	P	P	P	P	P
99	228R1A0492	P	P	P	P	P	P	P	P

100	228R1A0493	P	P	P	P	P	A	P	P
101	228R1A0494	P	P	P	P	P	P	P	P
102	228R1A0495	A	P	P	P	P	P	P	P
103	228R1A0496	P	P	P	P	A	P	P	P
104	228R1A0497	P	P	P	P	P	P	P	A
105	228R1A0498	P	P	P	P	P	A	P	P
106	228R1A0499	P	P	P	P	P	P	P	P
107	228R1A04A0	A	P	P	P	P	P	P	P
108	228R1A04A1	P	P	P	P	A	P	P	A
109	228R1A04A2	P	P	P	P	P	P	P	P
110	228R1A04A3	P	P	P	P	P	P	P	P
111	228R1A04A4	P	P	P	A	P	P	P	P
112	228R1A04A5	P	P	P	P	P	P	P	P
113	228R1A04A6	P	P	P	P	P	P	P	P
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115	228R1A04A8	P	P	P	P	A	P	P	P
116	228R1A04A9	P	P	P	P	P	P	P	P
117	228R1A04B0	P	P	P	P	P	P	P	P
118	228R1A04B1	A	P	P	P	P	P	P	P
119	228R1A04B2	P	P	P	P	P	P	A	P
120	228R1A04B3	P	P	P	P	P	P	P	A
121	228R1A04B4	P	P	P	P	P	P	P	P
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123	228R1A04B6	P	P	P	P	P	P	P	P
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126	228R1A04B9	P	P	P	P	P	P	P	P

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133	228R1A04C6	A	P	P	P	P	P	P	P
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141	238R5A0412	P	P	P	P	A	P	P	P
142	238R5A0413	P	P	P	P	P	P	P	P
143	238R5A0414	A	P	P	P	P	P	P	P

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KANDLAKOYA (VI), MEDCHAL ROAD, HYDERABAD-501401

Department of Electronics and Communication Engineering

II B.tech I sem Advanced Technology Lab Examination

A.Y 2024-25

Data Structures through C++

DATE: 26/11/24

DURATION:3 hours

QUESTION PAPER

1. Write a C++ program for addition of two polynomial expressions?
2. Write a program to Implement Multistack in a Single Array?
3. Write a program to implement the operations on Circular Queue?
4. Write a program to implement Single linked list?
5. Write a program to perform Binary Search Operation using divide and conquers concept?
6. Write a program to Implement Doubly linked list?
7. Write a program to Implement Binary Search trees.
8. Write a program to Implement Hash table.
9. Write a program to Implement Depth First Search Techniques.
10. Write a program to Implement Breadth First Search Techniques.
11. Write a program to Implement Prim's Algorithm?
12. Write a program to implement Kruskal's Algorithm?
13. Write a program to implement Dijkstra's Algorithm?
14. Write a program to implement Merge Sort?
15. Write a program to implement Quick Sort?

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Department of Electronics and Communication Engineering

II B.tech I sem Advanced Technology Lab Examination

Data Structures through C++

A.Y 2024-25 I SEM

DATE: 26/11/24

DURATION:3 HOURS

ATTENDANCE SHEET

S.NO	H.T NO	QUESTION NUMBER	REMARKS
1	238R1A0401	1	
2	238R1A0402	15	
3	238R1A0403	13	
4	238R1A0404	14	
5	238R1A0405	11	
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139	248R5A0414	12	

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KANDLAKOYA (VI), MEDCHAL ROAD, HYDERABAD-501401

**Department of Electronics and Communication Engineering
II B.tech I sem Advanced Technology Lab Examination A.Y 2024-25**

DATE:26/11/24

Data Structures through C++

MARKS LIST

S.NO	H.T NO	PROGRAM WRITING(25) AND EXECUTION(15)	VIVA (10)	TOTAL (50)
A&B Sections				
1	238R1A0401	40	7	47
2	238R1A0402	38	8	46
3	238R1A0403	39	6	45
4	238R1A0404	38	7	45
5	238R1A0405	40	9	49
6	238R1A0406	40	7	47
7	238R1A0407	38	8	46
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107	238R1A04B0	40	7	47
108	238R1A04B1	38	8	46
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110	238R1A04B3	40	7	47
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113	238R1A04B6	38	8	46
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115	238R1A04B8	38	8	46
116	238R1A04B9	39	6	45
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123	238R1A04C6	40	7	47
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133	248R5A0408	39	6	45
134	248R5A0409	40	7	47
135	248R5A0410	40	7	47
136	248R5A0411	40	7	47
137	248R5A0412	39	6	45
138	248R5A0413	39	6	45
139	248R5A0414	39	6	45



CMR ENGINEERING COLLEGE

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Kandlakoya (V), Medchal (M), Medchal - Malkajgiri (D)-501401



ATLBOOKLET NO:202425ATL347

II B.TECH I SEM EXAMINATION

DATE:26-11-24

H.T NO: 238P1A0423

TIME:3 HOURS

MAX MARKS:50

LABORATORY: DSC++

MARKS AWARDED:

46
50

5- write a program Binary Search operation using divide and conquer concept?

#include <iostream.h>

#include <conio.h>

void main()

{ int a[50], i, key, n, result;

int low, mid, high;

void binarysearch(int a[], int key, int low, int high)

{

cout << "how many numbers you want to enter?"

cin >> n;

cout << "Enter elements in ascending order:"

for (i = 0; i < n; i++)

cin >> a[i];

cout << "Enter element to be searched:"

cin >> key;

low = 0;

high = n-1;

binarysearch(a, key, low, high);

getch();

}

void binarysearch(int a[], int key, int low, int high)

{

int mid;

if (low > high)

{

written = 24
execution = 14
viva = 8
46

```
{ cout << "search element not found";  
  return;
```

```
}  
else
```

```
{ mid = (low + high) / 2;
```

```
  if (key == a[mid])
```

```
{ cout << "key element is found at position ";  
  return;
```

```
}  
if (key < a[mid])
```

```
{ high = mid - 1;
```

```
  binarysearch(a, key, low, high);
```

```
}  
if (key > a[mid])
```

```
{ low = mid + 1;
```

```
  binarysearch(a, key, low, high);
```

```
}
```

```
}
```

```
}
```

output:

How many numbers you want to enter? Enter 5
numbers in ascending order:

10

20

30

40

50

Enter element to be searched 10 Key element is
found position

Correct

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Department of Electronics and Communication Engineering
III B.tech I sem Advanced Technology Lab Examination A.Y 2024-25
PYTHON PROGRAMMING

DATE: 07/11/24

DURATION:3 hours

QUESTION PAPER

- 1 a) Write a program to purpose fully raise Indentation Error and Correct it
b) Find mean, median, mode for the given set of numbers in a list.
- 2 a) Write a program to compute distance between two points taking input from the user(Pythagorean Theorem)
b) Write a program to compute the number of characters, words and lines in a file.
- 3 a) Write a Program for checking whether the given number is a even number or not.
b) Write a program to count frequency of characters in a given file. Can you use character frequency to tell whether the given file is a Python program file, C program file or a text file?
- 4 a) Write a program using a for loop that loops over a sequence. What is sequence?
b) Write a program to use split and join methods in the string and trace a birthday with a dictionary data structure.
- 5 a) Find the sum of all the primes below two million.
Each new term in the Fibonacci sequence is generated by adding the previous two terms.
By starting with 1 and 2, the first 10 terms will be:
1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...
b) Write a program to print each line of a file in reverse order.
- 6) Write a program combine_lists that combines these lists into a dictionary.
- 7 a) Write a program to count the numbers of characters in the string and store them in a dictionary data structure
b) By considering the terms in the Fibonacci sequence whose values do not exceed four million, find the sum of the even-valued terms.
- 8 a) Write a program add.py that takes 2 numbers as command line arguments and prints its sum.
b) Write a function ball_collide that takes two balls as parameters and computes if they are colliding.
Your function should return a Boolean representing whether or not the balls are colliding.
Hint: Represent a ball on a plane as a tuple of (x, y, r), r being the radius
- 9 a) Using a for loop, write a program that prints out the decimal equivalents of 1/2, 1/3, 1/4, . . . ,1/10
b) Write a program using a while loop that asks the user for a number, and prints a countdown from that number to zero..

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Department of Electronics and Communication Engineering
III B.tech I sem Advanced Technology Lab Examination A.Y 2024-25

Date:07/11/24

PYTHON PROGRAMMING LAB

ATTENDANCE SHEET

S.NO	H.T NO	QUESTION NUMBER	REMARKS
1	228R1A0401	9	
2	228R1A0402	7	
3	228R1A0403	6	
4	228R1A0404	8	
5	228R1A0405	5	
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70	238R5A0405	8	
71	238R5A0406	7	
72	238R5A0407	6	
73	228R1A0466	5	
74	228R1A0467	2	
75	228R1A0468	3	
76	228R1A0469	4	
77	228R1A0470	9	
78	228R1A0471	2	
79	228R1A0472	3	
80	228R1A0473	5	
81	228R1A0474	7	
82	228R1A0475	8	
83	228R1A0476	6	

84	228R1A0477	1	
85	228R1A0478	8	
86	228R1A0479	7	
87	228R1A0480	2	
88	228R1A0481	3	
89	228R1A0482	5	
90	228R1A0483	2	
91	228R1A0484	3	
92	228R1A0485	1	
93	228R1A0486	4	
94	228R1A0487	2	
95	228R1A0488	3	
96	228R1A0489	5	
97	228R1A0490	7	
98	228R1A0491	8	
99	228R1A0492	6	
100	228R1A0493	2	
101	228R1A0494	3	
102	228R1A0495	1	
103	228R1A0496	4	
104	228R1A0497	2	
105	228R1A0498	2	
106	228R1A0499	3	
107	228R1A04A0	1	
108	228R1A04A1	4	
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112	228R1A04A5	7	
113	228R1A04A6	8	

114	228R1A04A7	2	
115	228R1A04A8	3	
116	228R1A04A9	1	
117	228R1A04B0	4	
118	228R1A04B1	2	
119	228R1A04B2	3	
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121	228R1A04B4	7	
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123	228R1A04B6	6	
124	228R1A04B7	1	
125	228R1A04B8	8	
126	228R1A04B9	7	
127	228R1A04C0	6	
128	228R1A04C1	5	
129	228R1A04C2	2	
130	228R1A04C3	3	
131	228R1A04C4	4	
132	228R1A04C5	9	
133	228R1A04C6	2	
134	228R1A04C7	3	
135	228R1A04C8	5	
136	228R1A04C9	7	
137	238R5A0408	8	
138	238R5A0409	6	
139	238R5A0410	2	
140	238R5A0411	3	
141	238R5A0412	1	
142	238R5A0413	4	
143	238R5A0414	2	

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KANDLAKOYA (VI), MEDCHAL ROAD, HYDERABAD-501401

Department of Electronics and Communication Engineering

III B.tech I sem Advanced Technology Lab Examination

PYTHON PROGRAMMING

DATE:07/12/24

A.Y 2024-25 I SEM

MARKS LIST

S.NO	H.T NO	PROGRAM WRITING(25) AND EXECUTION(15)	VIVA (15)	TOTAL (50)
1	228R1A0401	39	6	45
2	228R1A0402	37	7	44
3	228R1A0403	40	9	49
4	228R1A0404	38	8	46
5	228R1A0405	37	6	43
6	228R1A0406	37	8	45
7	228R1A0407	39	6	45
8	228R1A0408	37	7	44
9	228R1A0409	39	6	45
10	228R1A0410	36	7	43
11	228R1A0411	40	9	49
12	228R1A0412	38	8	46
13	228R1A0413	37	6	43
14	228R1A0414	37	8	45
15	228R1A0415	40	7	47
16	228R1A0416	37	9	46
17	228R1A0417	38	8	46
18	228R1A0418	36	6	42
19	228R1A0419	40	6	46
20	228R1A0420	40	9	49
21	228R1A0421	38	8	46
22	228R1A0422	37	6	43
23	228R1A0423	37	8	45
24	228R1A0424	39	6	45
25	228R1A0425	37	7	44
26	228R1A0426	39	6	45
27	228R1A0427	36	7	43
28	228R1A0428	40	9	49
29	228R1A0429	36	9	45
30	228R1A0430	36	8	44
31	228R1A0431	38	6	44
32	228R1A0432	38	8	46
33	228R1A0433	37	8	45

34	228R1A0434	37	7	44
35	228R1A0435	40	9	49
36	228R1A0436	38	8	46
37	228R1A0437	37	6	43
38	228R1A0438	37	8	45
39	228R1A0439	39	6	45
40	228R1A0440	37	7	44
41	228R1A0441	39	6	45
42	228R1A0442	36	7	43
43	228R1A0443	40	9	49
44	228R1A0444	38	8	46
45	228R1A0445	37	6	43
46	228R1A0446	37	6	43
47	228R1A0447	39	6	45
48	228R1A0448	37	7	44
49	228R1A0449	39	6	45
50	228R1A0450	36	7	43
51	228R1A0451	36	7	43
52	228R1A0452	36	8	44
53	228R1A0453	37	9	46
54	228R1A0454	36	8	44
55	228R1A0455	38	6	44
56	228R1A0456	38	8	46
57	228R1A0457	37	8	45
58	228R1A0458	40	9	49
59	228R1A0459	38	8	46
60	228R1A0460	37	6	43
61	228R1A0461	37	8	45
62	228R1A0462	39	6	45
63	228R1A0463	37	7	44
64	228R1A0464	39	6	45
65	228R1A0465	36	7	43
66	238R5A0401	40	9	49
67	238R5A0402	38	8	46
68	238R5A0403	37	6	43
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70	238R5A0405	38	7	45
71	238R5A0406	39	7	46
72	238R5A0407	37	7	44
73	228R1A0466	40	8	48
74	228R1A0467	36	8	44
75	228R1A0468	38	6	44
76	228R1A0469	38	8	46
77	228R1A0470	40	9	49
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82	228R1A0475	37	7	44
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84	228R1A0477	36	7	43

85	228R1A0478	39	8	47
86	228R1A0479	38	9	47
87	228R1A0480	40	9	49
88	228R1A0481	38	8	46
89	228R1A0482	37	6	43
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94	228R1A0487	38	9	47
95	228R1A0488	40	9	49
96	228R1A0489	38	8	46
97	228R1A0490	37	6	43
98	228R1A0491	37	8	45
99	228R1A0492	39	6	45
100	228R1A0493	37	7	44
101	228R1A0494	39	8	47
102	228R1A0495	38	9	47
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104	228R1A0497	38	8	46
105	228R1A0498	37	6	43
106	228R1A0499	37	8	45
107	228R1A04A0	39	6	45
108	228R1A04A1	37	7	44
109	228R1A04A2	39	8	47
110	228R1A04A3	38	9	47
111	228R1A04A4	40	9	49
112	228R1A04A5	38	8	46
113	228R1A04A6	37	6	43
114	228R1A04A7	37	8	45
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119	228R1A04B2	40	9	49
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121	228R1A04B4	37	6	43
122	228R1A04B5	37	8	45
123	228R1A04B6	39	6	45
124	228R1A04B7	37	7	44
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126	228R1A04B9	38	9	47
127	228R1A04C0	40	9	49
128	228R1A04C1	38	8	46
129	228R1A04C2	37	6	43
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131	228R1A04C4	39	6	45
132	228R1A04C5	37	7	44
133	228R1A04C6	39	8	47
134	228R1A04C7	38	9	47
135	228R1A04C8	40	9	49

136	228R1A04C9	40	9	49
137	238R5A0408	40	9	49
138	238R5A0409	40	9	49
139	238R5A0410	40	9	49
140	238R5A0411	37	6	43
141	238R5A0412	37	8	45
142	238R5A0413	38	7	45
143	238R5A0414	39	7	46



CMR ENGINEERING COLLEGE

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(Approved by AICTE - New Delhi, Affiliated to JNTUH and Accredited by NAAC & NBA)
Kandlakoya (V), Medchal (M), Medchal - Malkajgiri (D)-501401



ATLBOOKLET NO:202425ATL043

IIIB.TECH I SEM EXAMINATION

DATE:07-11-24

H.T NO: 23825A0401

TIME:3 HOURS

MAXMARKS:50

LABORATORY: PP

MARKS AWARED: 49
50

7a) Write a program to count the number of characters in the string and store them in a dictionary data structure.

```
str = input("Enter a string:")
```

```
dict = {}
```

```
for n in str:
```

```
    keys = dict.keys()
```

```
    if n in keys:
```

```
        dict[n] += 1
```

```
    else:
```

```
        dict[n] = 1
```

```
print(dict)
```

OR

```
str = input("Enter a string")
```

```
dict = {}
```

```
for i in str:
```

```
    dict[i] = str.count(i)
```

```
print(dict)
```

out put:

Enter a string: guntur

{'g':1, 'u':2, 'n':1, 't':2, 'r':1}

written = 25

Examination = 15

40

viva 9

49

OR

```
s = input("Enter a string")
```

```
dist = {}
```

```
L = len(s)
```

```
d = {s[i]: L-i}
```

```
Print (d)
```

out put :

Enter a string guntur

{ 'guntur': 6 }

Exhibit

7b) By considering the terms in the fibonacci sequence whose values do not exceed four million, find the sum of the even-valued terms.

```
a, b = 1, 2
```

```
total = 0
```

```
Print (a, end=" ")
```

```
while (a <= 4000000-1):
```

```
    if a % 2 == 0:
```

```
        total += a
```

```
    a, b = b, a+b
```

```
    Print (a, end=" ")
```

```
Print("In sum of prime numbers term in fibonacci series: ", total)
```

out put :

1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584

4181 6765 10946 17711 28657 46368

75025 121393 196418 317811 514229 832040 1346269 2178309

3524578 5702887

sum of prime numbers term in fibonacci series :

4613732

Correct

ATL LAB EXAMINATION