SET 1

1. Write a C++ program to print the weekday of given date

2. Pointers: Use Pointers to sort a 1D array using a function

3. C++ Program to Implement Selection Sort Recursively

SET 2

1. Write a C++ program to find the longest palindromic substring and its length in a given string.

2. Write a C++ program to split an array from specified position and add first part at the end.

3. Write a C++ program to implement Heapsort

SET 3

1. To find the second largest and second smallest element in an unsorted array of N elements and display it, without sorting the elements

2. C++ program to convert a decimal number to character below 1000

3. Write a C++ program to implement Mergesort using recursion

SET 4

1. Write a C++ program to take Date of Birth of a person as input and calculate the age of that person.

2. Array: Find the second largest prime number in a given 1D array

3. Declare a structure called CRICKET that contains the following details.

Player name, team name and batting average. Create a player array PROBABLE with 30 players of the type structure CRICKET. Write a program to read details of players and print a team-wise list containing player's names and batting average.

Name	Team	Batting Average
Anil Kumble	Karnataka	22.50
Vinod Kambli	Mumbai	39.50
Sachin	Mumbai	69.25
Rahul Dravid	Karnataka	57.45
Srikanth	Tamil nadu	52.00

SET 5

1. To sort a matrix row wise and column wise

2. Read a matrix of order M X N and Display the same in matrix form and Compute the weighted average of each row and displays it.

3. Write a C program to left rotate an array by n position

SET 6

1. Write a C++ program to input 2 decimal points and convert them into binary. Then perform the addition and subtraction of those resultant binary numbers

2 .Consider an organization, in which da(Dearness Allowance) of an employee is calculated depending on the category of employee.

Codes are given to different categories and da is calculated as follows:
For code 1,10% of basic salary.
For code 2, 15% of basic salary.
For code 3, 20% of basic salary.
For code >3 da is not given.

3. Write a C++ program to implement Horspool's string matching algorithm.

[Students to write the above programs along with respective algorithms (1M) + 2M for programs]

SET 7

1 .C++ Program to Add Complex Numbers by Passing Structure to a Function;
2. Write a C++ program to find the smallest and the largest word in a string

3 .Write a C program to accept an array of 10 elements and swap 3rd element with 4th element using pointers. And display the results

SET 8

1. Loops: Convert a given decimal number into binary, octal and hexa decimal number.

2. Write a C++ program to input 2 decimal points and convert them into binary. Then perform the addition and subtraction of those resultant binary numbers.

3. Write a C++ program to count the number of words, lines and characters in a text using pointers.

SET 9

1. To sort a matrix row wise and column wise

2. A C++ program to print union and intersection of two unsorted arrays

3 .Write a C++ program to implement Quicksort using recursion

SET 10

1. To find all occurrence of a sub string in a given main string with their positions of occurrences.

2. Function: Use functions to find if the given 2D array is a magic square

3. Write a C++ program to maintain academic details of N students using array of structures

SET 11

1. Write a C++ program to multiply two matrices by passing them to a function

2 Write a C++ program to accept a set of names and use function to sort them in an alphabetical order. Use structures to store the names.

3. Write a program in C++ to print all permutations of a given string using pointers

SET 12

1. Write a C++ program to demonstrate the use of array of pointers. Use the array of pointers to modify and store the set of integer values.

2. Pointers: Use Pointers to sort a 1D array using a function

3. Write a C++ program to implement Quicksort using recursion

SET 13

1. Structure: Use structures to enter a list of student names and marks for 3 subjects and compute the class average for the individual subjects.

2 .Write a program to find the length of a string using pointers with the help of a recursive program.
3. Write a C++ program to find the power of a number using recursion.

SET 14

1. Write a program to copy one string to another with the help of a recursion.
2 .C++ Program to Add Complex Numbers by Passing Structure to a Function;

3. Write a C++ program to store information of students using structure

SET 15

1. Write a C++ program to input 2 decimal points and convert them into binary. Then perform the addition and subtraction of those resultant binary numbers

2. Write a C++ program to reverse a string using recursion

3. Write a C++ program to implement Horspool's string matching algorithm.

[Students to write the above programs along with respective algorithms (1M) + 2M for programs]

SET 16

1 .To sort a matrix row wise and column wise.

2. C++ program to convert a decimal number to character below 1000

3 .Write a C++ program to implement Heapsort

SET 17

1. Write a C++ program to print the weekday of given date.

2. Array: Find the second largest prime number in a given 1D array

3. Write a C program to accept an array of 10 elements and swap 3rd element with 4th element using pointers. And display the results

SET 18

1. Write a C++ program to accept a set of names and use function to sort them in an alphabetical order. Use structures to store the names.

2 .A C++ program to print union and intersection of two unsorted arrays

3. C++ Program to Implement Selection Sort Recursively

SET 19

1. Read a matrix of order M X N and Display the same in matrix form and Compute the weighted average of each row and displays it

2. Write a C++ program to take Date of Birth of a person as input and calculate the age of that person.

3. Write a C program to left rotate an array by n position

SET 20

1. Write a C++ program to demonstrate the use of array of pointers. Use the array of pointers to modify and store the set of integer values

2 .C++ Program to Add Complex Numbers by Passing Structure to a Function;
3. Declare a structure called CRICKET that contains the following details.

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