

Sr.No.		Problem Statements
1	A	Write a program for Stack using class Template.(perform abstraction)
	B	implement single inheritance
2	A	Write a program which counts the number of words and lines and characters from the given text file.(Give the object oriented solution – class and object)
	B	create a class with copy constructor
3	A	Write a program to perform addition and subtraction of two matrices using operator overloading(perform abstraction)
	B	write a program to implement exception handling
4	A	Write a program for Queue using class Template.(perform abstraction)
	B	write a program to initialize base class data members from derived class
5	A	Write a program for BMI Calculator which as well as it provides facility to show BMI is overweight, Underweight or Normal. (perform abstraction)
	B	write a program to print the count of objects destroyed by program
6	A	Write a program to check equality of two matrices using == operator overloading (perform abstraction)
	B	Create a class for line and write methods set and get.
7	A	Write a program for simple calculator which will work for basic arithmetic operations by using function templates.
	B	implement "has a relationship"
8	A	Write a program to create string class which provides facility to reverse the given string, convert lower to upper and upper to lower case, count string length etc.
	B	write a program for accessing global variable and static variable
9	A	Write a program for class weight. And overload + and – operator to add and subtract to objects. (perform abstraction)
	B	write a program to use new and delete operator for array
10	A	Write a program for Interest Calculator Which provides features of simple interest and compound interest of given principle amount and year. (perform abstraction)

	B	write a program to overload postfix operator(p++)
11	A	Write a program to reverse line by line the content of text file and write into another file.(Give the object oriented solution- class and object)
	B	write a program to overload unary operator(-)
12	A	Write a program for class length and overload + and – operator to add and subtract two length objects. 1feet =12inches (perform abstraction)
	B	write a program to print the count of objects created by program
13	A	Implement below hierarchy: <div style="text-align: center; margin: 20px 0;"> <pre> classDiagram class Employee { int empId String empName } class PermanentEmployee { String designation String department } class TemporaryEmployee { int workingDays String contractorName } Employee < -- PermanentEmployee Employee < -- TemporaryEmployee </pre> </div>
	B	write a program to handle exception bad_alloc
14	A	Write a program to search word from text file and write line number where the word exists.(give the object oriented solution –class and object)
	B	write a program get input string including space also
15	A	Write a program for date class and also it should check given date is valid date or not ?(perform abstraction)
	B	write to program to use setfill and setprecision manipulators.
16	A	Find out the relationship between Person, Employee and Address objects and write program with appropriate data members and functions for respective classes
	B	Perform the different string operations
17	A	Write a program to overload pre increment and post increment operator for complex number. Use Copy constructor also.
	B	write a program to use new and delete operator for class object creation.

18	A	Write a program to create Matrix class and performs operations like addition subtraction multiplication and transpose (perform abstraction)
	B	create a class circle using all types of constructors
19	A	Write a class array using templates, which provides various features like sort, search, min, max, sum, avg for given array.(perform abstraction)
	B	write a program to call derived class method using base class object
20	A	Write a program to overload pre decrement and post decrement operator for complex number. Use copy constructor also.
	B	write a program to string or output data will be right justified
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