

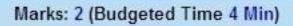
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Question No : 41 of 52	
Give at least one advantage and one disadvantage of templates.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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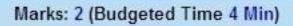




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Question No : 42 of 52	
Person class is an abstract class; which have some specific features. Briefly describe the silent features of abstract class	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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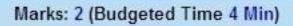




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Question No : 43 of 52	
While overloading stream insertion and extraction operators a programmer can not declare ostream and istream refere	ence as constant. Why?
Answer (Please <u>click here</u> to Add Answer)	VuAns
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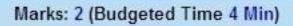




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Question No : 44 of 52	
What do you mean by Stack unwinding?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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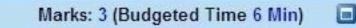




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Question No : 45 of 52	
Describe three properties necessary for a container to implement Generic Algorithms.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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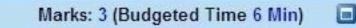


Question No : 46 of 52	
Consider the code given below and answer the questions at the end,	
class Base	
{ private:	
int x;	VuAn
Answer (Please <u>click here</u> to Add Answer)	V GITTI
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Question No : 47 of 52	
In which situation do we need to implement virtual inheritance? Explain with the help of an example.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 48 of 52	
Tell the logical error/s in the code given below with reference to resource management; also describe how we can c	orrect that error/s.
class Test{	
public:	
int function 10{	VuAn
Answer (Please <u>click here</u> to Add Answer)	V UIIII
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Question No: 49 of 52

The code given below has one template function as a friend of a template class,

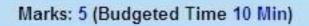
- 1. You have to identify any error/s in this code and describe the reason for error/s.
- 2. Give the correct code after removing the error/s.

template<typename U> void Test(U);

					-
nswer	(Please	click here	to Add	Answer)	

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Question No : 50 of 52	
What is virtual function? Explain it with coding example.	
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Answer(Please <u>click here</u> to Add Answer)	vumi
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Question No : 51 of 52	
Briefly give benefits of the use of static variable noOfStudents along with static method by considering following coded example: class Student {	
static int noOfStudents; Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 41 of 52

What will be output when this code will be executed?

- 1. #include <iostream.h>
- 2. #include <stdlib.h>
- 3. using namespace std;
- 4. template < typename T >

Answer(Please <u>click here</u> to Add Answer)	VuAns
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Marks: 2 (Budgeted Time 4 Min)







Question No : 42 of 52	
Why we need to use friend functions when overloading insertion and extraction operators?	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No: 43 of 52

```
Update following code to make it capable of terminating gracefully in case of variable value2 is zero:
int Quotients (int value1, int value2) {
       if(value2 == 0){
             cout << "cannot be zero" << endl;
       return value1 / value2;
Answer ( Please click here to Add Answer )
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Question No : 44 of 52	
State any conflict that may arise due to multiple inheritance.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 45 of 52	
If we declare a function as friend of a template class will it be a friend for a particular data type o	r for all data types of that class.
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Que	stion	No	: 46	of	52

In both virtual inheritance and multiple inheritance, copy/copies of base class are created. Please list down; how many copy/copies of base class are created for: Virtual Inheritance Multiple inheritance

Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 47 of 52	
Mobile is a good entity for being an object. List down any two characteristics, behavior and one	unique ID in this context
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 48 of 52	
What is Graceful Termination method of Error Handling, give its example using C++ code.	
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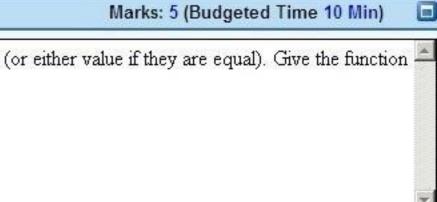


Question No: 49 of 52

Write a function template named maximum. The function takes two values of the same type as its arguments and returns the larger of the two arguments (or either value if they are equal). Give the function 🛋 prototype and definition for the template.

Answer(Please <u>click here</u> to Add Answer)	VuAns
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Marks: 5 (Budgeted Time 10 Min)





Question No : 50 of 52

The code given below has one template function as a friend of a template class,

- 1. You have to identify any error/s in this code and describe the reason for error/s.
- 2. Give the correct code after removing the error/s.

template<typename U> void Test(U);

Answer (Please <u>click here</u> to Add Answer)	VuAns
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Write C++ code for declaring the following Class: Course Attributes: Name of type String	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 51 of 52	
Name of type String Code of type String Method: getCode()	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Write C++ code for the constructor of following template Vector class.

template< class T > class Vector { private:

T* ptr;

Answer	Please	click here	to Add Answer)	
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Marks: 5 (Budgeted Time 10 Min)





Question No : 52 of 52	
T* ptr; int size; int index; public: Vector(int = 10); // constructor };	
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 41 of 52	
What are the non - type parameters for templates?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 42 of 52	
What is the difference between Simple Model and Object Oriented Model?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 43 of 52	
In which situations we should use Operator Overloading and in which situations we should use Templates .	
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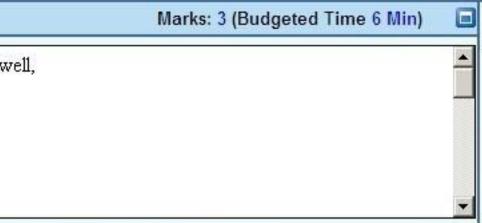


Question No : 44 of 52	
What do you mean by Stack unwinding?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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What will be output after executing following lines of code, (suppose there is no error and code will be executed	correctly), justify your answer as v
class Student{ static int noOfStudents; int rollNo; public:	5.624.63
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
Student::Student(){ noOfStudents++;	
}	
Student:-Student(){	
noOfStudents;	
)	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
static int get1otalStudent(){	
return noOfStudents;	
);	
int Student::noOfStudents = 0;	
int main(){	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
ວເມαຍາມ ບບງ 1,00ງ2, {	
Student obj3;	
} cout< <student::gettotalstudent();< td=""><td></td></student::gettotalstudent();<>	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No: 46 of 52				
In which situation do we need to implement virtual inheritance? Explain with the help of an example.				
Answer (Please <u>click here</u> to Add Answer)	VuAn			
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Question No: 47	of 52
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Identify and correct the sy	ntax error(s) in	n the giver	n code snippet'
template <classname t=""></classname>			
class Template_class {			

private:

T data;

Answer (Please click here to Add Answer)

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Marks: 3 (Budgeted Time 6 Min)

Question No : 47 of 52			
// Public: // void input(); };			
Answer(Please <u>click here</u> to Add Answer)	VuAn		
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Question No : 47 of 52	
template< class 1 >	
void Template_class::input() { cin>>data;	
)	
void main()	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 47 of 52	
void main()	
Template_class <int>obj;</int>	
obj.input(); }	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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uestion No : 48 of 52	
Tell the logical error/s in the code given below with reference to resource management; also describe how we can correct that error/s.	
class Test{	
public:	
nt function 1 (
nswer (Please <u>click here</u> to Add Answer)	uAn
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Question No : 48 of 52	
<pre>try{ FILE *fileptr = fopen("filename.txt","w"); throw exception(); fclose(fileptr); return 0; } </pre>	
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 48 of 52		
} catch(Exception e){		
} };		
Answer (Please <u>click here</u> to Add Answer)	VuAn	
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Question No: 49 of 52

The code given below has one template function as a friend of a template class,

- You have to identify any error/s in this code and describe the reason for error/s.
- 2. Give the correct code after removing the error/s.

template<typename U> void Test(U);

Answer (Please click here to Add Answer)

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Question No : 49 of 52	
template< class T >	
class B (
int data; public:	
friend void Test<>(T);	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 41 of 52	
How can we set the default values for NON type parameters?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 42 of 52		
Can we achieve Information Hiding by separating Interface and Implementation of an object? Justify your answer.		
Answer (Please <u>click here</u> to Add Answer)	ViiAn	
	V GIIII	
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Question No : 43 of 52	
In which situations we should use Operator Overloading and in which situations we should use Templates .	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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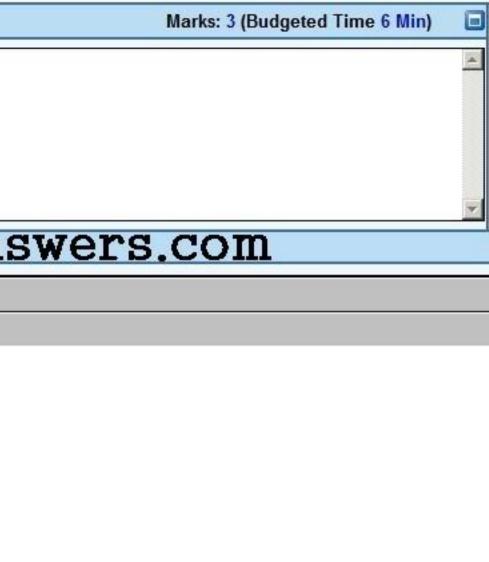
Question No : 44 of 52	
Describe two key components of STL?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
If we declare a function as friend of a template class will it be a friend for a particular data type or for all data types of that class.	2
Answer (Please <u>click here</u> to Add Answer)	VuAn
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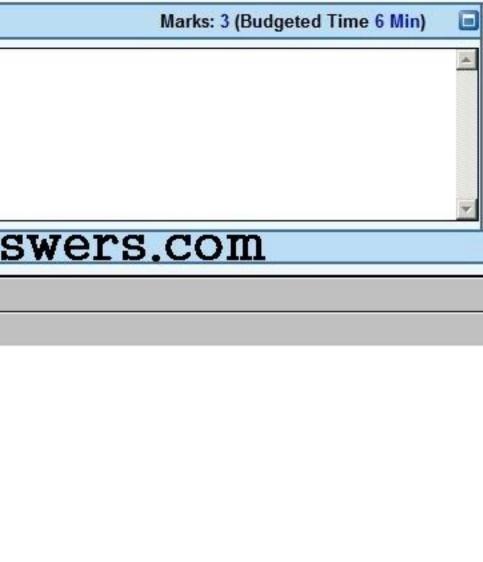
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Question No : 46 of 52	
Tell the two ways to indicate the compiler that we are overloading post increment operator.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 47 of 52	
In which situation do we need to implement virtual inheritance? Explain with the help of an example.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 48 of 52	
Give the general syntax of nested try catch blocks?	
Answer (Please <u>click here</u> to Add Answer)	VııAn
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Question No : 49 of 52

The code given below has one template function as a friend of a template class,

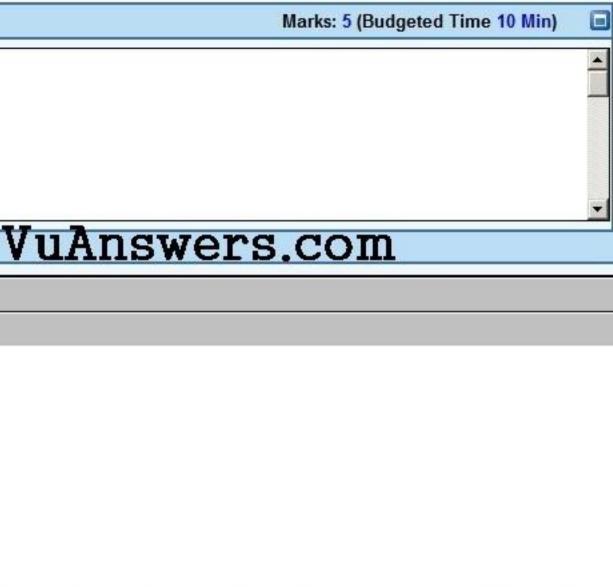
- 1. You have to identify any error/s in this code and describe the reason for error/s.
- 2. Give the correct code after removing the error/s.

template<typename U> void Test(U);

Answer (Please click here to Add Answer)

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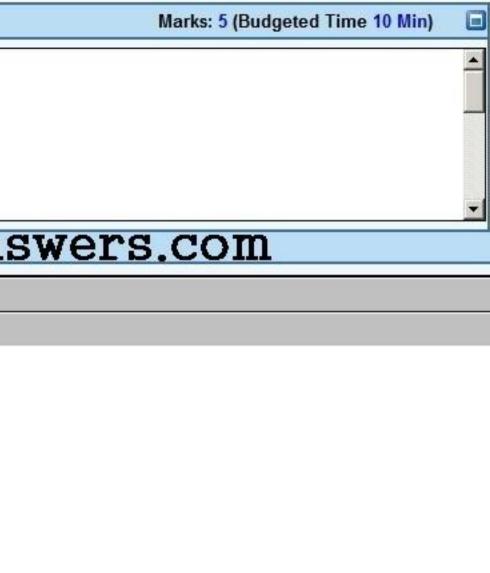






Question No : 50 of 52	
Consider the following code segment:	
class Complex{ private: double real, img; public:	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question	No : 51	of 52	
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Consider the following code segment:

class Alphabets {

public:

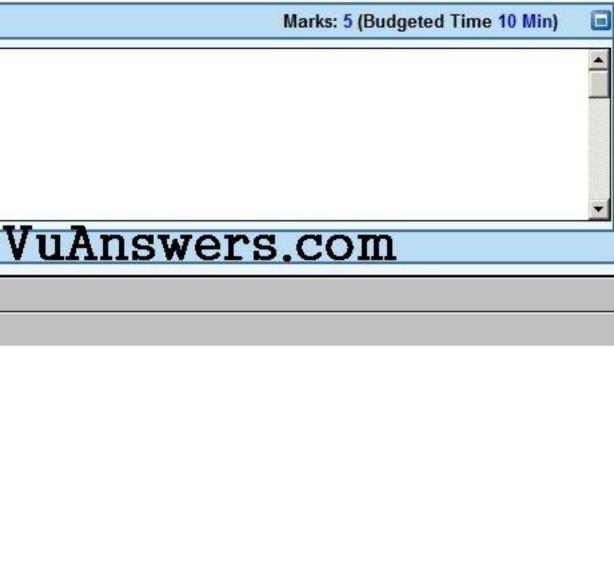
virtual void write()=0;

};

Answer (Please click here to Add Answer)

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Question No : 52 of 52

What is the output produced by the following program?

#include<iostream.h>

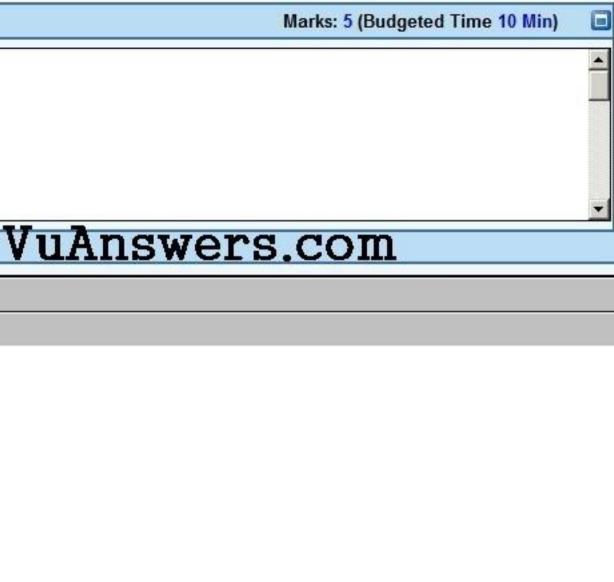
void sample_function(double test) throw (int);

int main()

Answer (Please click here to Add Answer)

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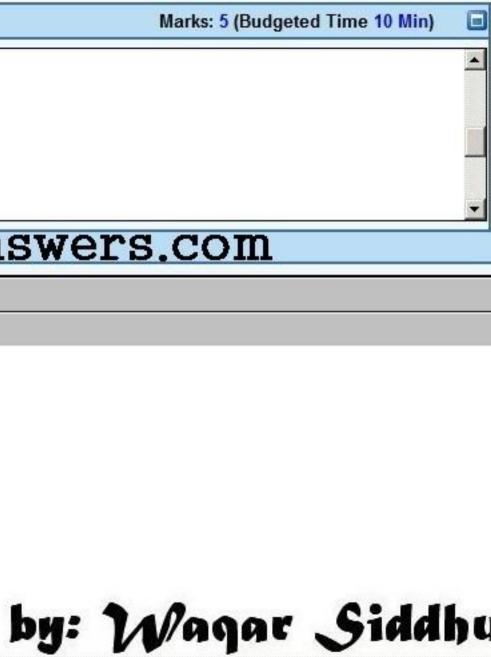


try { cout <<"Trying.\n"; sample_function(98.6); cout << "Trying after call.\n";	
swer (Please <u>click here</u> to Add Answer)	VuAns
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Overthe No. 52 -552	
Question No : 52 of 52	
<pre>cout << "Catching.\n";</pre>	
} Answer (Please <u>click here</u> to Add Answer)	ViiAns
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Question No : 52 of 52

cout << "End program.\n"; return 0;

```
void sample_function(double test) throw (int)
```

```
cout << "Starting sample_function.\n";</pre>
```

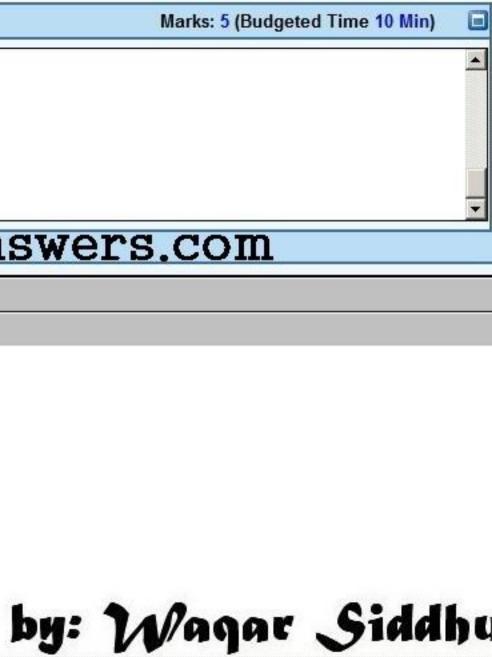
Answer (Please click here to Add Answer)

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Question No : 52 of 52	
<pre>void sample_function(double test) throw (int) { cout << "Starting sample_function.\n"; if(test < 100) throw 42; }</pre>	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 41 of 52	
What are the non - type parameters for templates?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 42 of 52	
Define Catch Handler in berief	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 43 of 52	
How static and dynamic binding is used in the case of virtual functions? Justify your answer as well.	
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Question No : 44 of 52	
Can we use initialization list to set the value of any base class public data member? Justify your answer in either case as	well.
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Question No : 45 of 52	
Write a template function that takes one template parameter and always returns value that is always equal t	o double of its parameter value (param
Answer(Please <u>click here</u> to Add Answer)	VuAn
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Question No : 46 of 52	
Give c++ code to overload assignment operator for string class.	
Answer (Please <u>click here</u> to Add Answer)	ViiAns
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Question No : 47 of 52	
Consider the code below,	
template< typename T >	
class T1 {	
public: T i;	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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uestion	No	: 48	of	52

Tell the logical error/s in the code given below with reference to resource management; also describe how we can correct that error/s.

class Test{

Q

public:

int function 1(){

Answer (Please click here to Add Answer)

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Question No : 49 of 52	
Write c++ code to overload subscript[] operator for String class.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 50 of 52	
Consider the code below,	
#include <iostream></iostream>	
#include <stdlib.h></stdlib.h>	
using namespace std; class Shape{	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 51 of 52

There are some errors in the code given below, you have to

- 1. Indicate the line no. with error/s
- 2. Give the reason for error/s
- 3. Correct the error/s.
 - 1. #include <iostream>

Answer (Please click here to Add Answer)

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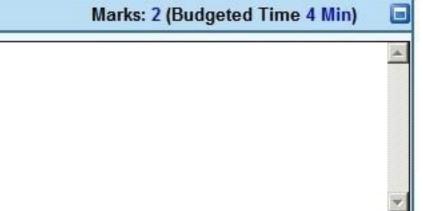
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Question No : 52 of 52				
Create a Vector array of length 8, and also initialize the elements of this array with values 0 1 2 3 4 5 6 7				
Answer (Please <u>click here</u> to Add Answer)	VuAns			
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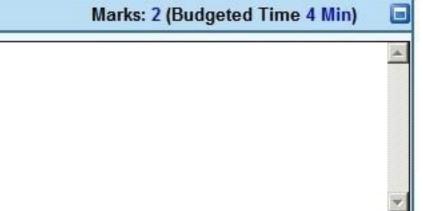


Question No : 41 of 52	
Describe the way to declare a template function as a friend of any class.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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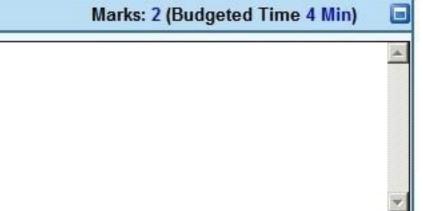


Question No : 42 of 52	
Illustrate any two properties of a constructor.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 43 of 52	
State any conflict that may arise due to multiple inheritance.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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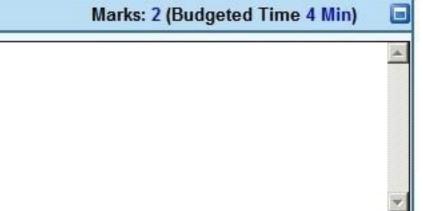


What do you mean by Stack unwinding?

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Question No: 45 of 52

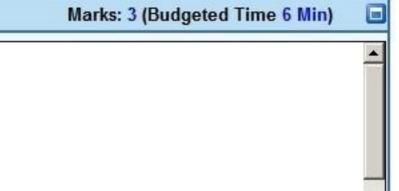
Consider the following information:

Class name= Doctor Attributes=Id, name, designation, salary Methods=checkup, prescribe, eat, walk

Answer (Please click here to Add Answer)

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In both virtual inheritance and multiple inheritance, copy/copies of base class are created. Please list down; how many copy/copies of base class are created for: Virtual Inheritance Multiple inheritance

Answer (Please <u>click here</u> to Add Answer)

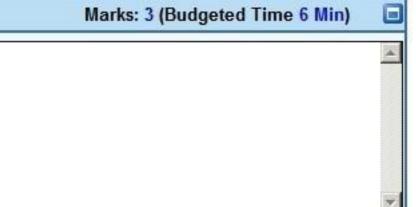
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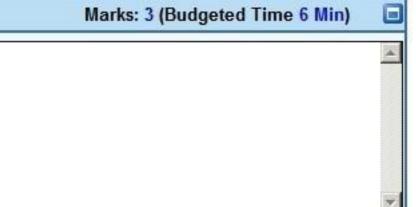
Marks: 3 (Budgeted Time 6 Min)

Question No : 47 of 52	
Give C++ code of template function to print the values of any type of array. <i>Hint :</i> This function will take two parameters one will be array pointer and other will be size of the array.	
Answer (Please <u>click here</u> to Add Answer)	VuAr
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Question No : 48 of 52	
Write C++ code that uses try catch block in member initialization list of any class.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 49 of 52

The code given below has one template function as a friend of a template class,

- 1. You have to identify any error/s in this code and describe the reason for error/s.
- 2. Give the correct code after removing the error/s.

template<typename U> void Test(U);

Answer (Please <u>click here</u> to Add Answer)	VuAns



Marks: 5 (Budgeted Time 10 Min)



Question No : 50 of 52

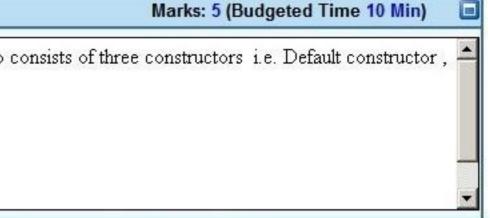
Write a program which consists of a class named Zakat and consists of two data members OwnerName and Totalamount, the class should also consists of three constructors i.e. Default constructor, one argument constructor and two argument constructor.

The class should further consists of a member function named Cal_zakat () which calculate the zakat.

It should be keep in mind that the zakat will be calculated only if the Totalamount is greater than or equal to 20,000.

In main program define three object of this class for respective constructors and also display the zakat for each object.

Answer (Please <u>click here</u> to Add Answer)	VuAna
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Question No : 51 of 52

Consider the following code:

// publication class and derived classes
#include <iostream>
#include <string>

using namespace std;

Answer (Please <u>click here</u> to Add Answer)

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Question No : 52 of 52

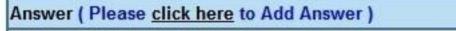
Write C++ code for the overloaded subscript operator of following template Vector class.

template < class T >

class Vector {

private:

T* ptr;





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Question No : 52 of 52	
T* ptr;	
int size; int index;	
public:	
T& operator [](int); // overloaded subscript operator	
};	
Answer (Please <u>click here</u> to Add Answer)	VuAr
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Question No : 41 of 52	Juest	ion N	0:4	11 o	f 52
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Sort the following data in the order in which compiler searches a function? Complete Specialization, Generic Template, Partial Specialization, Ordinary Function.

Answer (Please click here to Add Answer)

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Question No : 42 of 52	
Friend functions minimize "Encapsulation", What is your opinion?	
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Question No : 43 of 52	
State any two reasons why virtual methods can not be static?	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Marks: 2 (Budgeted Time 4 Min)







Question No : 44 of 52	
Give two advantages that Iterators provide over Cursors.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 45	of 52
Write a template	function that takes one template parameter and always returns value that is always equal to double of its
Answer (Please	<u>click here</u> to Add Answer)
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parameter value (parameter * 2).



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Question No : 46 of 52	
Describe three properties necessary for a container to implement Generic Algorithms.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 47 of 52	
Consider the following code: class Teacher { int id char * name; float salary	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 48 of 52	
What is Graceful Termination method of Error Handling, give its example using C++ code.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No: 49 of 52

See the 5 code snippets below and tell whether these are correct or incorrect also justify your answers in the table given at the end.

Snippet No.1

template< class T> class A {

Answer (Please click here to Add Answer)

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Question No : 50 of 52

Write a program which consists of a class named **Department**, this class should consists of two data members **DeptName** and **No_of_emps**, The class should further consists of three overloaded constructors, i.e. Default constructor, one argument constructor and two argument constructor and a member function named **Display** which display the Department information.

In main program define three reference variables for respective constructors and display its information.

Answer (Please <u>click here</u> to Add Answer)	VuAns
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CS304 Object Oriented	I Programming
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Question No : 51 of 52	
Consider the following code:	
// publication class and derived classes	
#include <iostream></iostream>	
#include <string></string>	
using namespace std;	VnAnc
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CS304	Object	Oriented	Programming	
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Question No : 52 of 52

Create a Vector array 🤇	of length 8, and also	initialize the elements of	of this array with values ()1234567.
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Answer (Please <u>click here</u> to Add Answer)	
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