

CS304 Object Oriented Programming

Question No : 1 of 38

Which of the following ensures that data and behaviour are tightly coupled within an object?

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Answer (Please select your correct option)

☐ Inheritance

☐ Abstraction

☐ Polymorphism

☒ Encapsulation

Start Time: 7:40 AM



Question No : 20 of 52

Which of the following statement is NOT true for reference variable ?

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Answer (Please select your correct option)

- ☐ Once a reference is created, it cannot be later made to reference another object.
- ☐ References cannot be NULL
- ☒ References can be uninitialized.
- ☐ It is not possible to refer directly to a reference object after it is defined.

Question No : 21 of 52

Running time of $find(i)$ is proportional to the _____ of the tree containing node i .



File



Tools

20



1.728



CS301 Data Structures**Question No : 24 of 38**

find() operation in data structure used to implement disjoint set will take _____ parameter/s.

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Answer (Please select your correct option)

☒ One

☐ Two

☐ Three

☐ Four

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Time Left**Question Summary : (Attempted Question)**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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by iterator, and will then cause iterator to point to the next element. (3marks)

Answer:-

*iter++

7. Describe three problems with multiple inheritance (3 marks)

Answer:- (Page 248)

- ❖ If more than one base class have a function with same signature then the child will have two copies of that function
- ❖ Calling such function will result in ambiguity

8. Name two types of template (2 Marks)

Answer:- (Page 256)

- a. Function Templates (in case we want to write general function like printArray)
- b. Class Templates (in case we want to write general class like Array class)

9. Sort data in the order in which compiler searches a function. **Complete** specialization, generic template, Partial specialization, Ordinary function. (2Marks)

Answer:- (Page 286)

- a. First of all compiler looks for **complete** specialization
- b. If it can not find any required **complete** specialization then it searches for some partial specialization
- c. In the end it searches for some general template

10. Give the names of two types of containers basically known as first class containers.(2 Marks)

Answer:- (Page 317)

Sequence and associative containers are collectively referred to as the first-class containers

Question No : 34 of 38

What will be the output after executing the following code?

```
#include<iostream>
#include<conio.h>

using namespace std;
```

Answer ([Please click here to Add Answer](#))

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Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



Question No : 27 of 38

A function call is resolved at run-time in _____.

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Answer (Please select your correct option)

☐ non-virtual member function

☒ virtual member function

☐ static member function

☐ friend member function

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72:00

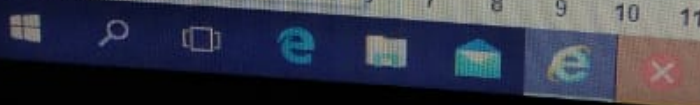
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Question Summary : (Attempted Question)

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3 7 8 9 10 11 12 13 14 15 16 17



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Question No : 26 of 38

Specialization (Restriction) can be implemented using _____ inheritance.

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Answer (Please select your correct option)

☐ Public

☐ Protected

☐ Private

☐ Protected and private both

Start Time: 7:40 AM

72:00

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Question Summary : (Attempted Question)

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333

S304 Object Oriented Programming

Question No : 35 of 38

Consider a Motorbike as an entity and write any six interfaces of the Motorbike in the form of class functions with appropriate parameters if required.

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Answer ([Please click here to Add Answer](#))

```
class Motorbike {
public:
    void startEngine() {
        // Start the motorbike's engine
    }

    void stopEngine() {
        // Stop the motorbike's engine
    }

    void accelerate(double amount) {
        // Accelerate the motorbike by a given amount
    }

    void brake(double amount) {
        // Apply the brakes to slow down the motorbike by a given amount
    }

    void refuel(double liters) {
        // Refuel the motorbike with a certain number of liters
    }

    double checkFuelLevel() {
        // Check the current fuel level of the motorbike
        return 0.0; // placeholder return value
    }
};
```

Start Time: 7:40 AM

39:00

Time Left

Question Summary : (Attempted Question

<http://exam.vutec.client/Paper.asp>

35

CS304 Object Oriented Programming

Question No : 36 of 38

Consider the following class:

```
class Teacher {
```

```
private:
```

```
    int age;
```

Answer ([Please click here to Add Answer](#))

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Start Time: 7:40 AM

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Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17



CS304 Object Oriented Programming

Question No : 22 of 38

Which of the following(s) represents a general template?

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Answer (Please select your correct option)

- ☐ template < float , int >
- ☐ template < class T , float >
- ☒ template < class T, class V, class U >
- ☐ All of the given options

Start Time: 7:40 AM
74:00
Time Left

Question Summary : (Attempted Question)

CS304 Object Oriented Programming

Question No : 18 of 38

In C++, which of the following keywords only works with constructor?

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Answer (Please select your correct option)

friend



explicit



static



const



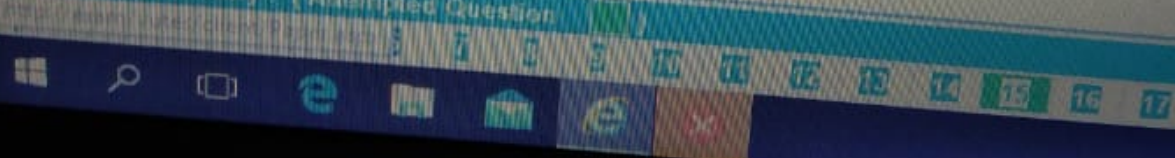
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Question Summary : (Attempted Question)

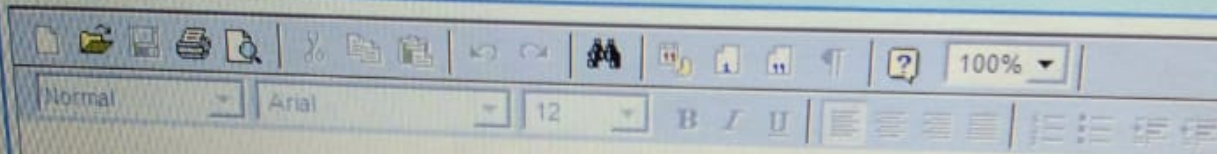


CS304 Object Oriented Programming

Question No : 31 of 38

Sort the following data in the order in which compiler searches a function?
Complete Specialization, Generic Template, Partial Specialization

Answer (Please [click here](#) to Add Answer)



The order in which the compiler searches for a function is

Complete Specialization
Partial Specialization
Generic Template

This means the compiler will first look for a complete specialization, then a partial specialization, and finally if no specializations match, it will use the generic template.

Start Time 7:40 AM

71:00
Time Left



Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CS304 Object Oriented Programming

Question No : 32 of 38

Identify the logical error/s in the code given below with reference to resource management, also describe how we can correct those errors.

```
class Test{  
public:  
int function1(){
```

Answer (Please [click here](#) to Add Answer)

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Start Time: 7:40 AM

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Time Left

32

Question Summary : (Attempted Question)

Progress bar showing 15 out of 38 questions attempted. The bar is divided into segments numbered 1 to 38. Segment 15 is highlighted in green, indicating the current question.

CS304 Object Oriented Programming

Question No : 3 of 38

Which of the following causes run time binding?

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Answer (Please select your correct option)

- ☐ Declaring object of abstract class
- ☒ Declaring pointer of abstract class
- ☐ Declaring overridden methods as non-virtual
- ☐ Declaring object of derived class

Start Time 7:40 AM

69:00

Time Left



Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



In protected inheritance _____ interface of a base class becomes hidden to the derived class.

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Answer (Please select your correct option)

☒ Public

☐ Protected

☐ Every

☐ Private

Start Time: 7:40 AM

76:00

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Question Summary : (Attempted Question)

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7 8 9 10 11 12 13 14 15 16 17 18 19 20

CS304 Object Oriented Programming

Question No : 12 of 38

In case of multiple inheritance, a derived class inherits:

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Answer (Please select your correct option)

- ☐ Only the public member functions of its base classes
- ☐ Only the public data members of its base classes
- ☐ Both public data members and member functions of all of its base classes
- ☐ Data members and member functions of only one of its base class

Start Time 7:40 AM

79:00

Time Left

Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

CS304 Object Oriented Programming

Question No : 13 of 38

If we write empty throw list for specifying exceptions then function will _____

Answer (Please select your correct option)

- ☐ automatically throw exception
- ☐ not throw any exception
- ☐ throw default number of exceptions
- ☐ compiler will generate error



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Start Time 7:40 AM

78:00

Time Left



Question Summary : (Attempted Question)

5 7 8 9 10 11 12 13 14 15 16 17 18 19

Which of the following classes is explicitly listed in the header of derived class with a colon (:) ?

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Answer (Please select your correct option)

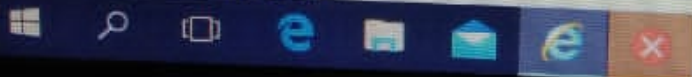
☒ Indirect base class

☐ Direct base class

☐ Two levels up base class

☐ Three levels up base class

Start Time: 7:40 AM



CS304 Object Oriented Programming

Question No : 6 of 38

"This" pointer returns:

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Answer (Please select your correct option)

☐ Reference of previous object

☐ Reference of preceded object

☒ Reference of current object

☐ Reference of next object

Start Time: 7:40 AM



S304 Object Oriented Programming

Question No : 9 of 38

Which of the following is a mechanism of throwing the exception again after partial handling Input Iterators?

Answer (Please select your correct option)

☐ Throw-Throw

☐ Throw-Again

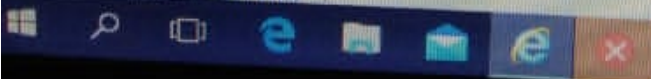
☒ Re-Throw

☐ Partial-Throw



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Start Time: 7:40 AM



4 Object Oriented Programming

ion No : 7 of 38

ensure that the correct function is called for an object, regardless of the expression used to make the function call.

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er (Please select your correct option)

Static functions

Virtual functions

Friend functions

Inline functions

art Time: 7:40 AM



CS304 Object Oriented Programming

Question No : 15 of 38

Which is the correct syntax for declaring static data member?

Answer (Please select your correct option)

☐ static memberName dataType;

☒ dataType static memberName;

☐ memberName static dataType;

☐ static dataType memberName;



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Start Time: 7:40 AM

77:00

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Answer Saved Successfully!

Question Summary : (Attempted Question)



S304 Object Oriented Programming

Question No : 4 of 38

Which of the following is NOT an advantage of generic programming?

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Answer (Please select your correct option)

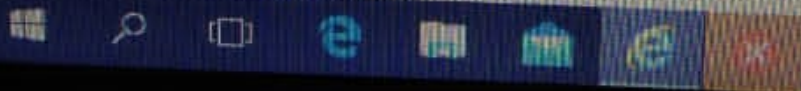
☐ Reusability

☐ Writability

☐ Maintainability

☒ Efficient memory usage

Start Time: 7:40 AM



CS304 Object Oriented Programming

Question No : 8 of 38

A model is an abstract representation of something

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Answer (Please select your correct option)

☐ Good

☒ Real

☐ Ambiguous

☐ Clear

Start Time: 7:40 AM





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CS304 Object Oriented Programming

Question No : 14 of 38

Default class type could be set as default comparison type like _____

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Answer (Please select your correct option)



template< typename C Student >



template< typename C = Student >



template< C typename = Student >



template< C typename Student >

Start Time: 7:40 AM

78:00

Time Left



Question Summary : (Attempted Question



Question No : 3 of 38

Which of the following causes run time binding?

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Answer (Please select your correct option)

- ☐ Declaring object of abstract class
- ☒ Declaring pointer of abstract class
- ☐ Declaring overridden methods as non-virtual
- ☐ Declaring object of derived class

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CS304 Object Oriented Programming

Question No : 13 of 38

If we write empty throw list for specifying exceptions then function will _____

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Answer (Please select your correct option)

- ☐ automatically throw exception
- ☒ not throw any exception
- ☐ throw default number of exceptions
- ☐ compiler will generate error

Start Time 7:40 AM

78:00

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Question Summary : (Attempted Question)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

CS304 Object Oriented Programming

Question No : 11 of 38

A template argument is preceded by the keyword _____

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Answer (Please select your correct option)

- ☐ template
- ☐ vector
- ☐ classname or type
- ☒ class or typename

Start Time 7:40 AM

79:00

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Question Summary : (Attempted Question)

<http://exam.vu.ac.pk/client/Paper.aspx> 5 7 8 9 10 11 12 13 14 15 16 17



The function that is automatically called when an object of a class is created is named as _____



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Answer (Please select your correct option)

☒ Constructor

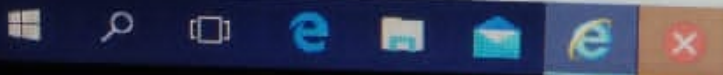


☐ Destructor

☐ Member Functions

☐ Inline Functions

Start Time: 7:40 AM



CS304 Object Oriented Programming

Question No : 16 of 38

Which of the following members lie somewhere between public and private members?

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Answer (Please select your correct option)

- ☒ Global members
- ☐ Static members
- ☐ Friends members
- ☐ Protected members

Start Time: 7:40 AM

77:00

Time Left

Question Summary : (Attempted Question)