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CS201
Solved Final Terms Papers

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Year
2017

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40 each 1 mark
Short 4 each 2 marks
Short 4 each 3 marks
long 4 each 5 marks

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Here the code is given below. You have to identify the problem in the code.

```
while( (i < 10) && (i > 24))
```

Answer (Please select your correct option)

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- ☐ the logical operator && cannot be used in a test condition
- ☐ the while loop is an exit-condition loop
- ☐ the test condition is always true
- ☐ the test condition is always false

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the statements given below is equivalent to `sum += j*j` ?

Answer (Please select your correct option)

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- ☐ `sum = j * j`
- ☐ `sum = sum + j`
- ☐ `sum = sum + j * j`
- ☐ `sum * j = j`

correct

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

All elements of an array must be of _____.

Answer (Please select your correct option)

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- ☐ different data type
- ☐ float data types only
- ☐ character data types only
- ☐ same data type

correct

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

In C/C++, null character is represented as _____.

Answer (Please select your correct option)

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- ☐ \n
- ☐ \0
- ☐ \t
- ☐ \r

correct

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

The dynamic memory allocation uses memory from the _____.

Answer (Please select your correct option)

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- ☐ Stack
- ☐ Heap
- ☐ System Cache
- ☐ Secondary Storage

correct

Made by: Waqar Siddhu

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

When a value is referred by a normal variable then it is known as _____.

Answer (Please select your correct option)

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☐ Direct Reference

correct

☐ Indirect Reference

☐ Proper Reference

☐ Partial Reference

Made by: Waqar Siddhu

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

The address operator (&) is used with a _____.

Answer (Please select your correct option)

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☐ Statement

☐ Expression

☐ Variable

correct

☐ Constant

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

A variable declared inside a code block becomes the _____ variable for that block.

Answer (Please select your correct option)

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☐ global

☐ static

☐ local

correct

☐ inner

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

If a friend function outside the class declares itself friend of the class, this may violate the concept of _____.

Answer (Please select your correct option)

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☐ Encapsulation and data accessing

☐ Encapsulation and data hiding

correct

☐ Friend member functions of the class

☐ Interface of the class

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

In C/C++, _____ are the doors through which data can enter and come out of a program.

Answer (Please select your correct option)

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☐ Streams

correct

☐ Fields

☐ Variables

☐ Header files

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

A _____ name includes a primary name and an optional period with an extension.

Answer (Please select your correct option)

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☐ File

correct

☐ Disk

☐ Data

☐ Database

Made by: Waqar Siddhu

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

The operator used for casting in C is standard _____ operator.

Answer (Please select your correct option)

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☐ binary

☐ cast

correct

☐ cost

☐ const

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Both endl and flush are _____.

Answer (Please select your correct option)

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☐ Functions

☐ Operators

☐ Manipulators

correct

☐ Objects

Made by: Waqar Siddhu

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

What will be the output of the following statement?

```
cout << setbase(16) << 52 ;
```

Answer (Please select your correct option)

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☐ 52

☐ 34

correct

☐ 64

☐ 32

Made by: Waqar Siddhu

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The return type of the operator function for << operator is _____.

Answer (Please select your correct option)

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☐ class for which we overload operator

☐ reference of ostream class (ostream&)

correct

☐ reference of istream class (istream&)

☐ void

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

new operator allocates memory from free store and returns _____.

Answer (Please select your correct option)

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☐ A pointer

correct

☐ A reference

☐ An integer

☐ A float

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

The pointer returned by the new operator points to _____ of memory chunks allocated by the new operator.

Answer (Please select your correct option)

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☐ Second memory address

☐ First memory address

correct

☐ Last memory address

☐ Last memory address of the previous chunk

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

A template function must have at least _____ generic data type.

Answer (Please select your correct option)

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☐ Zero

☐ One

☐ Two

☐ Three

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

What does STL stand for?

Answer (Please select your correct option)

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☐ Source template library

☐ Standard template library

correct

☐ Stream template library

☐ Standard temporary library

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

The appropriate data type to store the number of rows and columns of the matrix is _____.

Answer (Please select your correct option)

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☐ float

☐ strings

☐ int

correct

☐ char

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

By using objects as class members, _____ is achieved.

Answer (Please select your correct option)

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☐ Accessibility

☐ Reliability

☐ Reusability

☐ Usability

correct

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ data members of a contained object can be accessed from inside of the containing class.

Answer (Please select your correct option)

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☐ Private

☐ Public

☐ Protected

☐ All

correct

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

The normal source of cin object is _____.

Answer (Please select your correct option)

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☐ File

☐ Disk

☐ Keyboard

☐ RAM

correct

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

The stream insertion and stream extraction operators are already overloaded for _____.

Answer (Please select your correct option)

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☐ User-defined data types

☐ Built-in data types

correct

☐ User-defined and built-in data types

☐ Constants

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

When an object of a class is defined inside an other class then _____.

Answer (Please select your correct option)

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☐ Constructor of enclosing class will be called first

☐ Constructor of inner object will be called first

correct

☐ Constructor and Destructor will be called simultaneously

☐ Only destructor will be called

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The order of destruction of an object is _____.

Answer (Please select your correct option)

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☐ same as the construction order.

☐ reverse as the construction order.

correct

☐ independent of the construction order.

☐ same as the order of objects declared.

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

A constructor will create a new object with a full copy of the other object, this type of copy is known as _____.

Answer (Please select your correct option)

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☐ Deep copy

correct

☐ Shallow copy

☐ Constructor copy

☐ Object copy

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is the only operator that the compiler overloads for user defined data type.

Answer (Please select your correct option)

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☐ Plus (+)

☐ Minus (-)

☐ Equal (==)

☐ Assignment (=)

correct

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

A class member function defined for overloading a unary operator takes how many arguments ?

Answer (Please select your correct option)

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☐ Zero

☐ One

☐ Two

☐ N arguments

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Static allocation is _____ efficient than the dynamic allocation.

Answer (Please select your correct option)

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☐ less

correct

☐ more

☐ equally

☐ it depends on the situation

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following function call is correct for the function prototype?
defaultParameters (int a, int b = 7, char z = '*');

Answer (Please select your correct option)

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☐ defaultParameters (5);

correct

☐ defaultParameters (5, '8');

☐ defaultParameters (6, '#');

☐ defaultParameters (0, 0, '*', 0);

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

The region of memory, available for allocation at run time in C language is called _____ memory whereas in C++ , is called _____.

Answer (Please select your correct option)

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☐ Heap, Stack

☐ Stack, Free Store

☐ Heap, Free Store

correct

☐ Free store, Heap

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

The prototype of friend function is written _____.

Answer (Please select your correct option)

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☐ Before the class definition

☐ As private member function

☐ Anywhere inside the class definition

correct

☐ In the main function

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the given options is correct prototype syntax for overloaded operator?

Answer (Please select your correct option)

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☐ return-type operator-symbol (parameter-list) operator;

☐ operator return-type operator-symbol (parameter-list);

☐ return-type operator operator-symbol (parameter-list);

correct

☐ return-type operator-symbol operator (parameter-list);

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

The declarator of Plus (+) member operator function is _____.

Answer (Please select your correct option)

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☐ Class-Name operator + (Class-Name rhs)

correct

☐ operator Class-Name + ()

☐ operator Class-Name + (rhs)

☐ Class-Name operator + ()

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Sequence of event(s) when allocating memory using new operator is _____.

Answer (Please select your correct option)

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- ☐ Only block of memory is allocated for objects
- ☐ Only constructor is called for objects
- ☐ Memory is allocated first before calling constructor
- ☐ Constructor is called first before allocating memory

correct

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Individual characters in a string stored in an array can be accessed directly using array _____.

Answer (Please select your correct option)

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- ☐ Superscript
- ☐ Subscript
- ☐ Script
- ☐ Value

correct

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever we allocate any memory from the _____ then starting position of the block of the memory allocated is returned as an address that is kept in a pointer.

Answer (Please select your correct option)

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- ☐ Flush
- ☐ Buffer
- ☐ Heap
- ☐ Stack

correct

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever we allocate any memory from the heap then starting position of the block of the memory allocated is returned as a _____ that is kept in a pointer.

Answer (Please select your correct option)

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☐ Variable

☐ Address

correct

☐ Pointer

☐ Array

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Constructor is a special function, called whenever we instantiate a _____ of a class.

Answer (Please select your correct option)

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☐ Function

☐ Data member

☐ Object

correct

☐ Pointer

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

How can we overcome the issue of dangling reference in a program ?

Answer (Please click here to Add Answer)

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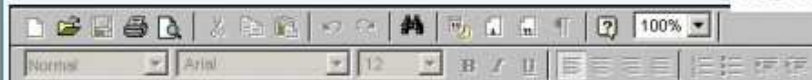
What will be the output of the program below?

```
#include <iostream.h>

main()
{
```

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

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```
main()
{
    int i = 2;
    int j = 3;
```

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

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```
int k = 2 * ++i * j++;

cout<<k;
}
```

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

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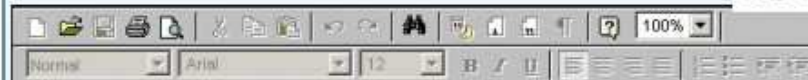
Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Write the operator overloading declaration for a stream extraction (>>) operator for an integer.

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

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Question No : 44 of 52

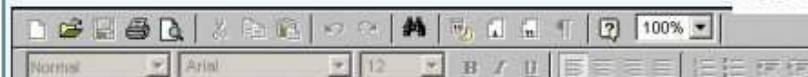
Marks: 2 (Budgeted Time 4 Min)

Suppose an object of class A is declared as data member of class B.

- (i) The constructor of which class will be called first?
- (ii) The destructor of which class will be called first?

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

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Question No : 45 of 52

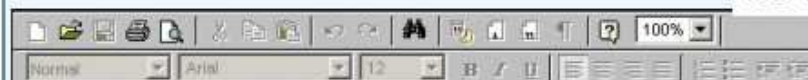
Marks: 3 (Budgeted Time 6 Min)

Identify and correct the error(s) in given code.

```
while ( c <= 5 ),  
{
```

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

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
sum += c;  
c++;  
)
```

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

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Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

What will be the output of the following code snippet?
int x = 10;
int &y = x;
y+=5;
cout << x;

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

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Write a function named Sum which accepts an integer as argument. In the function use a static variable to add the values passed to it as arguments with each function call. In the end, display the sum of values passed as arguments.

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Given is the code for nested classes.

```
class First
{
    public:
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
class Second
{
    public:

    void Display()
    {
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
{
    cout<<"inner Object called...";
}

);
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

```
1  
  
};  
  
};  
  
Write main() function to create an object of inner class and then call its function Display().
```

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

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Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program which defines a Template function named **Add ()** which adds two variables and then returns the sum. Define two variables of type **int** in main function, and then call **Add ()** function on these variables.

Program output should look like this:

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Program output should look like this:

Enter two integer values to be added
Enter First value:
12

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter two integer values to be added
Enter First value:
12
Enter Second value:
25
Addition of two variable of different data type

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter Second value:
25
Addition of two variable of different data type
Sum = 37

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

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Construct a logical expression to represent each of the following conditions:
a. score is greater than or equal to 80 but less than 90,
b. answer is either N or n,
c. n is even but not 8,
d. number is a multiple of both 4 and 6

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

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

In a C++ program, how would you identify whether a declared variable is a "reference variable" or an "address variable"?

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

What will be the output of given program code ?

```
class File {  
    private:
```

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

```
char *name;  
char *type;  
int size;
```

```
public:
```

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

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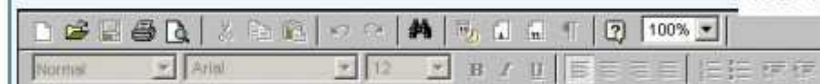
Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

```
File()
{
    File::num_files++;
}
```

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

```
static int num_files;
};

int File::num_files = 0;
main()
```

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

```
int File::num_files = 0;
main()
{
    File f1;

    cout<<f1.num_files<<endl;
```

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

WVVRP...T...K...B...R...S...M...V...T...T...U...Z...V...M...

File f2;

cout<<f2.num_files<<endl;

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

cout<<f2.num_files<<endl;

cout<<File.num_files;

return 0;

}

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

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