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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) WWW.VirtualAcademyLive.com

- 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) WWW.VirtualAcademyLive.com

- `sum = j * j`
- `sum = sum + j`
- `sum = sum + j * j` **correct**
- `sum * j = j`

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

Made by: Waqar Siddhu

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&)
- reference of istream class (istream&)
- void

correct

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
- A reference
- An integer
- A float

correct

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
- Last memory address
- Last memory address of the previous chunk

correct

Made by: Waqar Siddhu

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

Made by: Waqar Siddhu

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) WWW.VirtualAcademyLive.com

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) WWW.VirtualAcademyLive.com

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) WWW.VirtualAcademyLive.com

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) WWW.VirtualAcademyLive.com

- 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) WWW.VirtualAcademyLive.com

- 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) WWW.VirtualAcademyLive.com

- 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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Rich text editor toolbar with options like Bold, Italic, Underline, etc.

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

What will be the output of the program below?

```
#include <iostream.h>

main()
{
```

Answer (Please [click here](#) to Add Answer) WWW.VirtualAcademyLive.com




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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

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

Answer (Please [click here](#) to Add Answer) WWW.VirtualAcademyLive.com




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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

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

cout<<k;
}
```

Answer (Please [click here](#) to Add Answer) WWW.VirtualAcademyLive.com



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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](#)) WWW.VirtualAcademyLive.com



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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](#)) WWW.VirtualAcademyLive.com



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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](#)) WWW.VirtualAcademyLive.com



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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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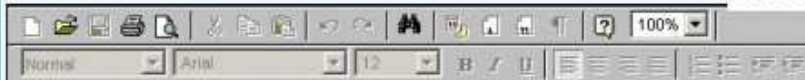
Question No : 46 of 52

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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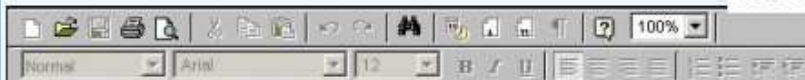
Question No : 47 of 52

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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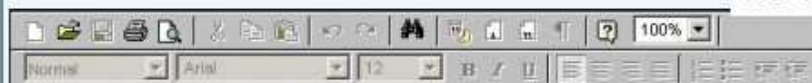
Question No : 48 of 52

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)

```
};  
};  
};  
  
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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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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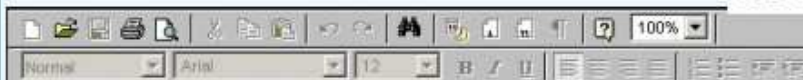
Question No : 49 of 52

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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Normal Arial 12 B I U

Made by: Waqar Siddhu

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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Normal Arial 12 B I U

Made by: Waqar Siddhu

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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Normal Arial 12 B I U

Made by: Waqar Siddhu

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

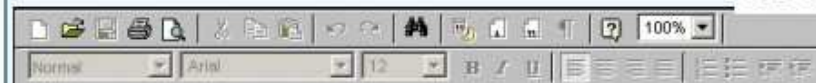
Marks: 5 (Budgeted Time 10 Min)

```
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

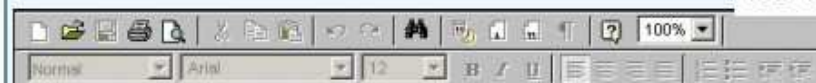
Marks: 5 (Budgeted Time 10 Min)

```
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)

QUESTION ID: Q12345678901234567890

```
File f2;
cout<<f2.num_files<<endl;
```

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

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Made by: Waqar Siddhu

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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