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CS201 Final Term Papers by Waqar (File 1)

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)

VuAnswers.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)

VuAnswers.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)

VuAnswers.com

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

correct

Made by: Waqar Siddhu

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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)

VuAnswers.com

- \n — correct
- \0
- \t
- \r

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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)

VuAnswers.com

- Stack
- Heap — correct
- System Cache
- Secondary Storage

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)

VuAnswers.com

- Direct Reference — correct
- Indirect Reference
- Proper Reference
- Partial Reference

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Question No : 7 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

VuAnswers.com

- Statement
- Expression
- Variable

correct

- Constant

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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)

VuAnswers.com

- 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)

VuAnswers.com

- Encapsulation and data accessing
- Encapsulation and data hiding

correct

- Friend member functions of the class
- Interface of the class

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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)

VuAnswers.com

- Streams — correct
- Fields
- Variables
- Header files

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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)

VuAnswers.com

- 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)

VuAnswers.com

- 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)

VuAnswers.com

- 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)

VuAnswers.com

- 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)

VuAnswers.com

- class for which we overload operator
- reference of ostream class (ostream&)

correct

- reference of istream class (istream&)
- void

Made by: Waqar Siddhu

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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)

VuAnswers.com

- A pointer — correct
- A reference
- An integer
- A float

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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)

VuAnswers.com

- Second memory address
- First memory address — correct
- Last memory address
- Last memory address of the previous chunk

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)

VuAnswers.com

- 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)

VuAnswers.com

- Source template library
- Standard template library — correct
- Stream template library
- Standard temporary library

Made by: Waqar Siddhu

Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

The appropriate data type to store the number of rows and colums of the matrix is_____.

Answer (Please select your correct option)

VuAnswers.com

- 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)

VuAnswers.com

- Accessibility
- Reliability
- Reusability — correct
- Usability

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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)

VuAnswers.com

- Private
- Public
- Protected
- All

correct

Made by: Waqar Siddhu

Question No : 23 of 52 Marks: 1 (Budgeted Time 1 Min)

The normal source of cin object is _____.

Answer (Please select your correct option)

VuAnswers.com

- File
- Disk
- Keyboard

correct

- RAM

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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)

VuAnswers.com

- User-defined data types
- Built-in data types

correct

- User-defined and built-in data types
- Constants

Made by: Waqar Siddhu

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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)

VuAnswers.com

- 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

Made by: Waqar Siddhu

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)

VuAnswers.com

- same as the construction order.
- reverse as the construction order. — correct
- independent of the construction order.
- same as the order of objects declared.

Made by: Waqar Siddhu

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)

VuAnswers.com

- Deep copy — correct
- Shallow copy
- Constructor copy
- Object copy

Made by: Waqar Siddhu

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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)

VuAnswers.com

- Plus (+)
- Minus (-)
- Equal (==)
- Assignment (=) correct

Made by: Waqar Siddhu

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)

VuAnswers.com

- Zero
- One
- Two
- N arguments

Made by: Waqar Siddhu

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)

VuAnswers.com

- 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)

VuAnswers.com

- defaultParameters (5);
- defaultParameters (5, '8');
- defaultParameters (6, '#');
- defaultParameters (0, 0, '*', 0);

correct

Made by: Waqar Siddhu

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)

VuAnswers.com

- Heap, Stack
- Stack, Free Store
- Heap, Free Store
- Free store, Heap

correct

Made by: Waqar Siddhu

Question No : 33 of 52 Marks: 1 (Budgeted Time 1 Min)

The prototype of friend function is written _____.

Answer (Please select your correct option)

VuAnswers.com

- Before the class definition
- As private member function
- Anywhere inside the class definition
- In the main function

correct

Made by: Waqar Siddhu

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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)

VuAnswers.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);

Made by: Waqar Siddhu

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)

VuAnswers.com

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

correct

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

Made by: Waqar Siddhu

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)

VuAnswers.com

- 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

Made by: Waqar Siddhu

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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)

VuAnswers.com

- Superscript
- Subscript

correct

- Script
- Value

Made by: Waqar Siddhu

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)

VuAnswers.com

- Flush
- Buffer
- Heap

correct

- Stack

Made by: Waqar Siddhu

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)

VuAnswers.com

- 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)

VuAnswers.com

- Function
- Data member
- Object

correct

- Pointer

Made by: Waqar Siddhu

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)

VuAnswers.com

Made by: Waqar Siddhu

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

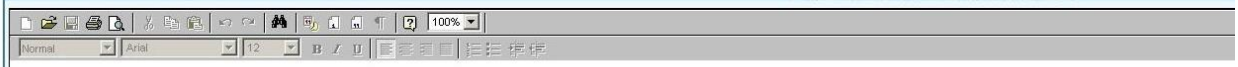
What will be the output of the program below?

```
#include <iostream.h>

main()
{
```

Answer (Please click here to Add Answer)

VuAnswers.com



Made by: Waqar Siddhu

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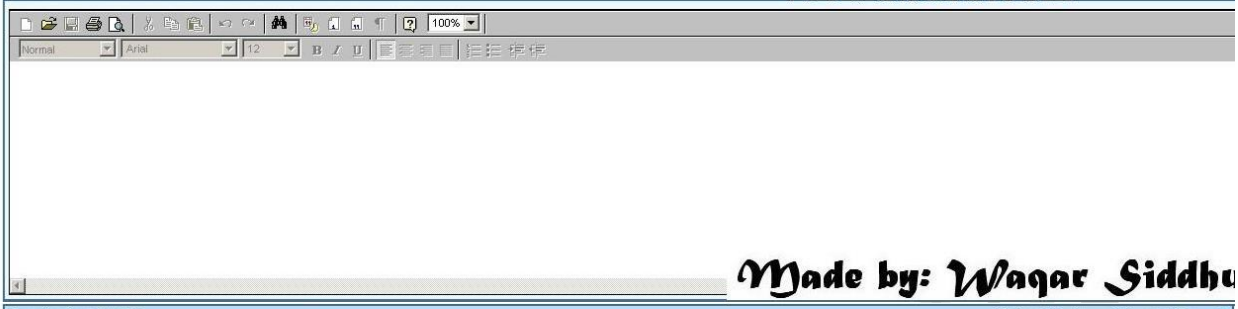
Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

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

Answer (Please click here to Add Answer)

VuAnswers.com



Made by: Waqar Siddhu

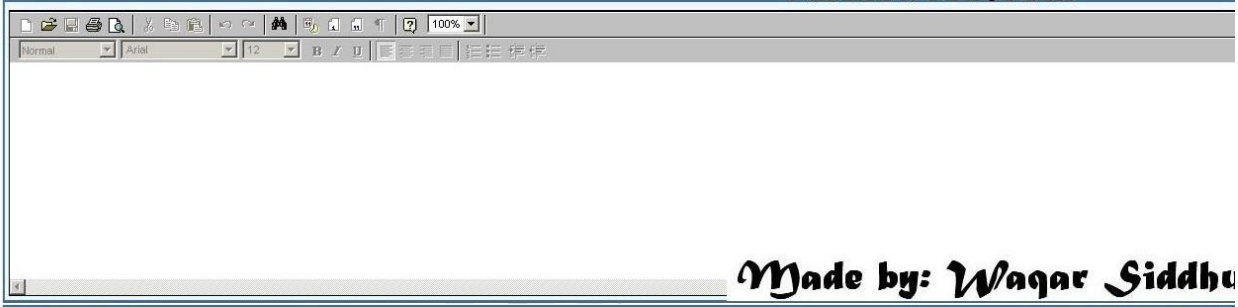
Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

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

   cout<<k;
}
```

Answer (Please click here to Add Answer)

VuAnswers.com



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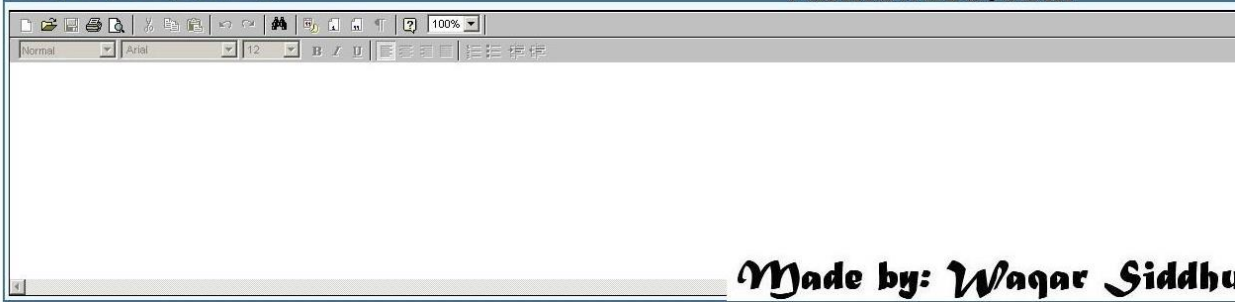
Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

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

Answer (Please click here to Add Answer)

VuAnswers.com



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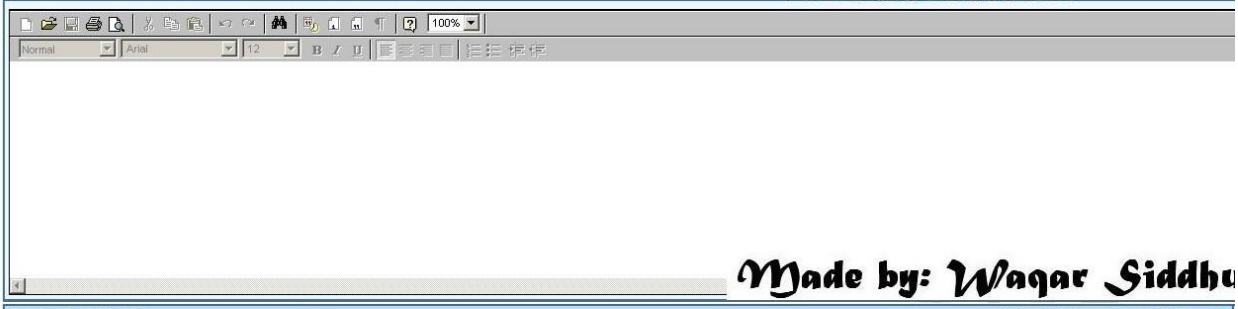
Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

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)

VuAnswers.com



Made by: Waqar Siddhu

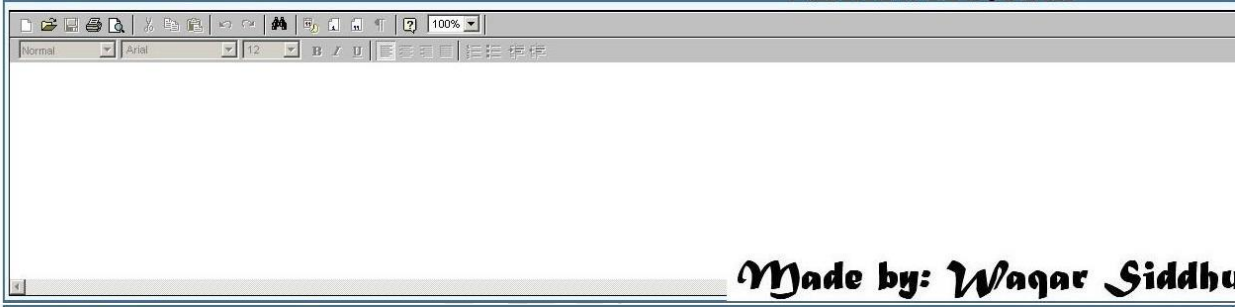
Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

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

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

Answer (Please click here to Add Answer)

VuAnswers.com



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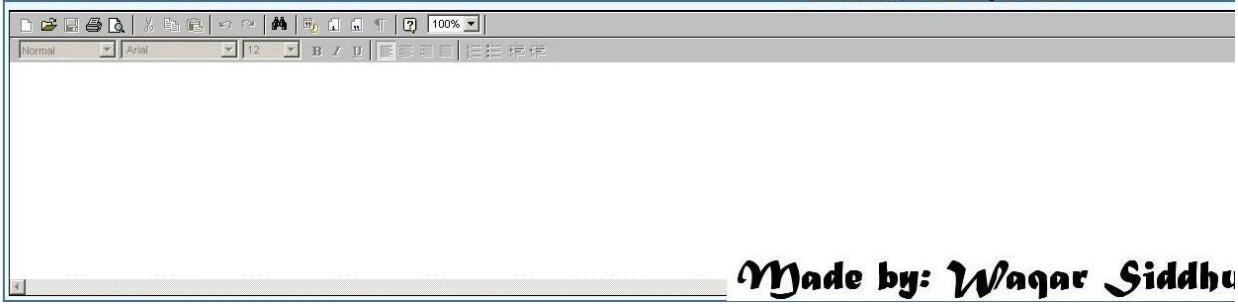
Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

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

Answer (Please click here to Add Answer)

VuAnswers.com



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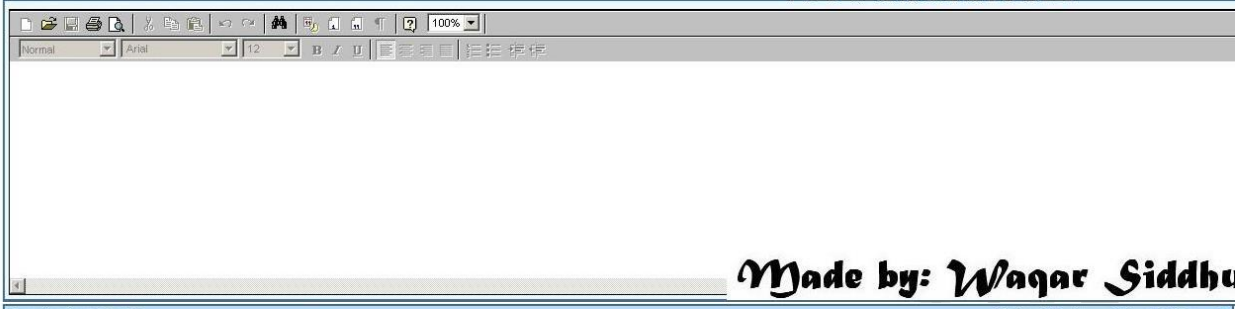
Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

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)

VuAnswers.com



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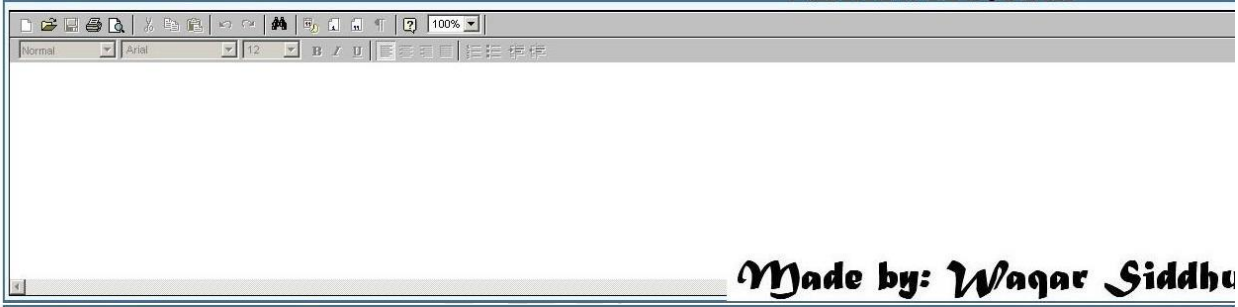
Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

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)

VuAnswers.com



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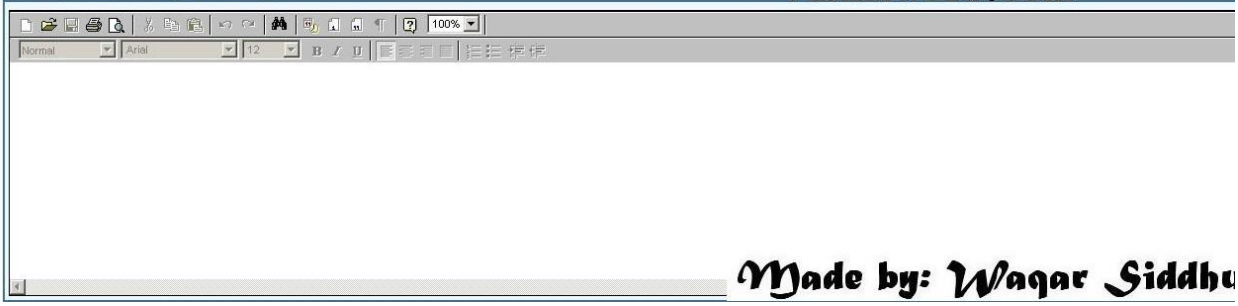
Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

Given is the code for nested classes.

```
class First
{
   public:
```

Answer (Please click here to Add Answer)

VuAnswers.com



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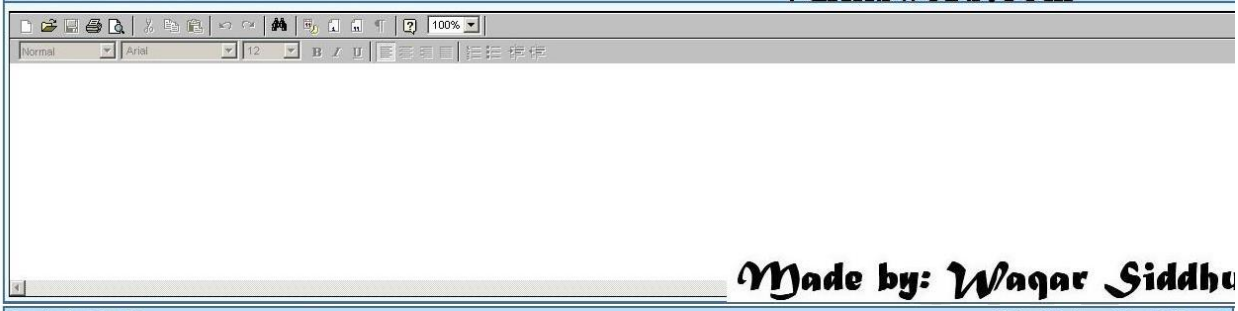
Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

```
class Second
{
  public:

    void Display()
    {
```

Answer (Please click here to Add Answer)

VuAnswers.com



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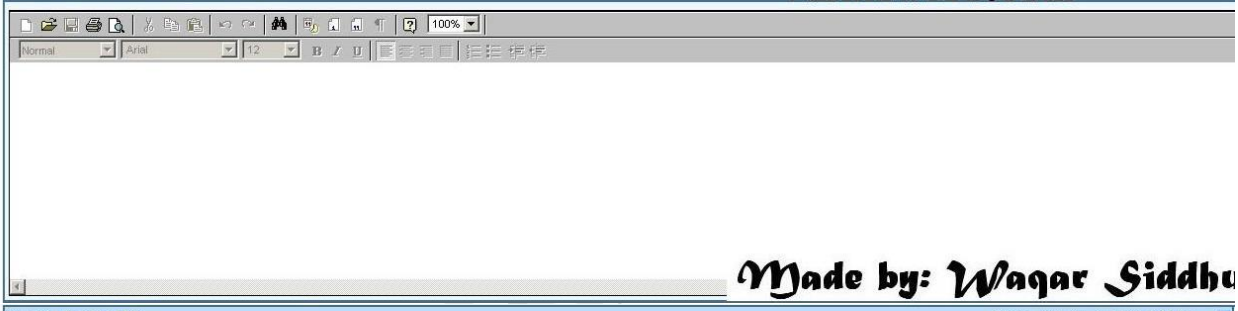
Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

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

};
```

Answer (Please click here to Add Answer)

VuAnswers.com



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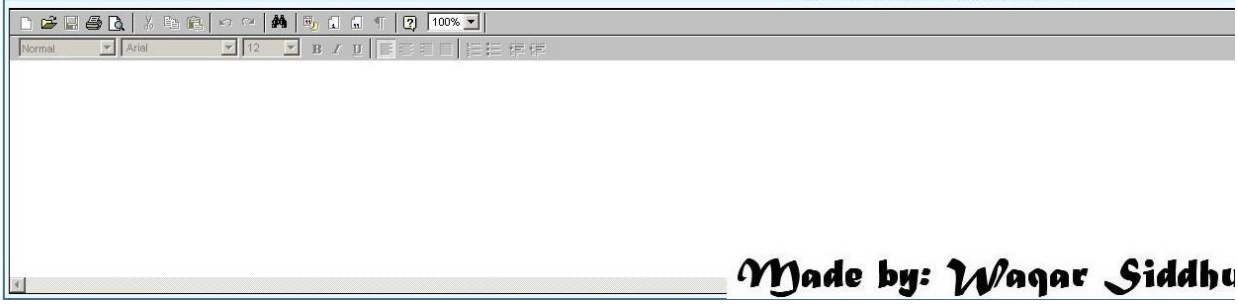
Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

```
    }

};

};
```

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

Answer (Please click here to Add Answer)

VuAnswers.com



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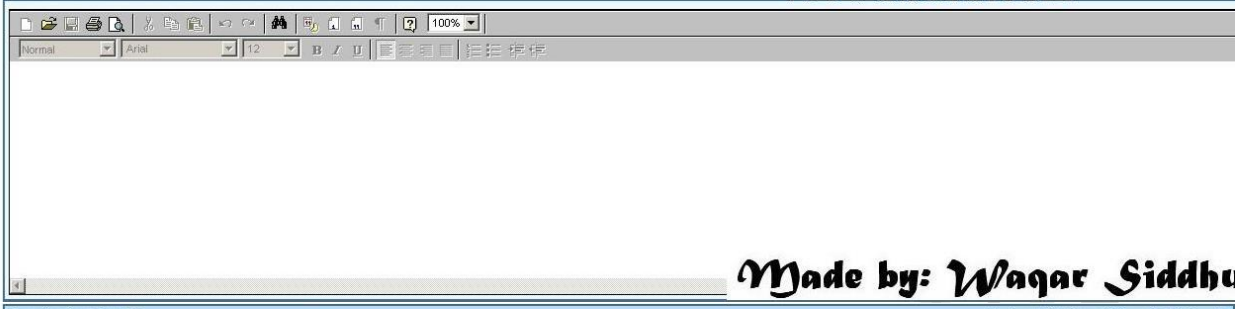
Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

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)

VuAnswers.com



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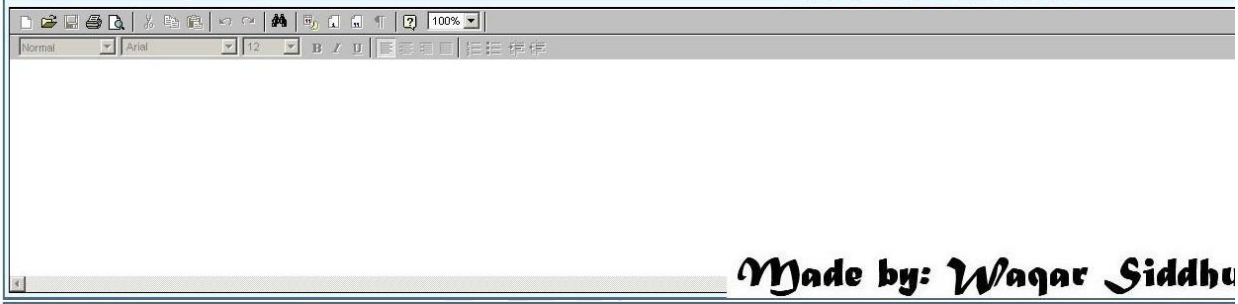
Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

Program output should look like this:

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

Answer (Please click here to Add Answer)

VuAnswers.com



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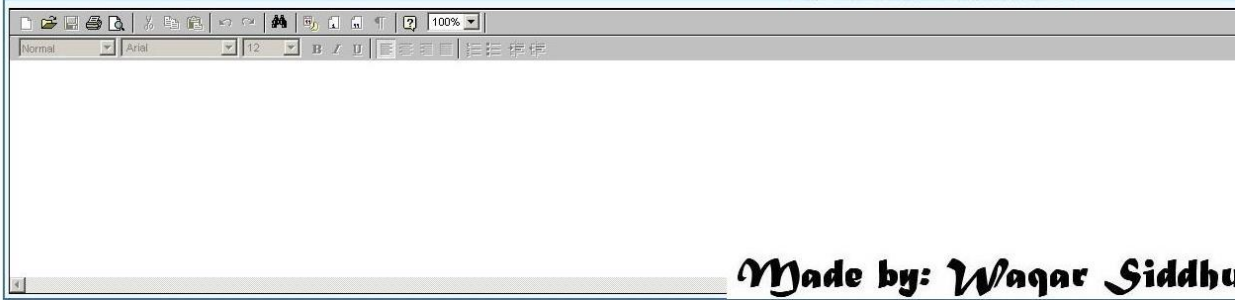
Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

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)

VuAnswers.com



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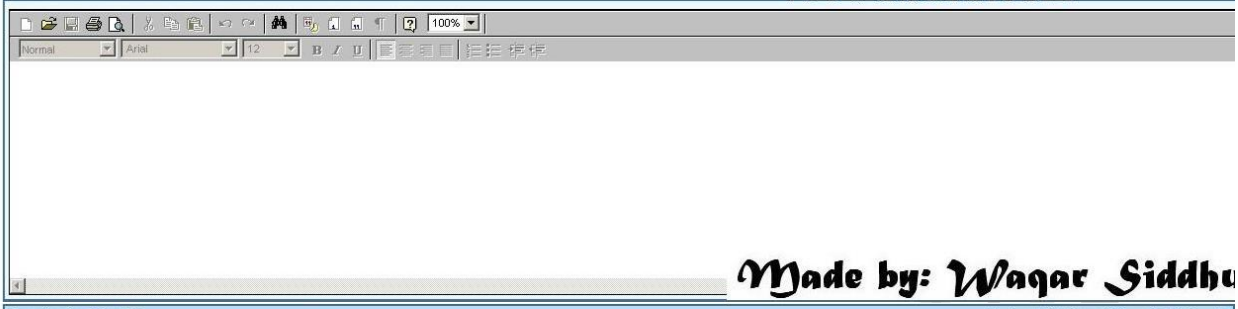
Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

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

Answer (Please click here to Add Answer)

VuAnswers.com



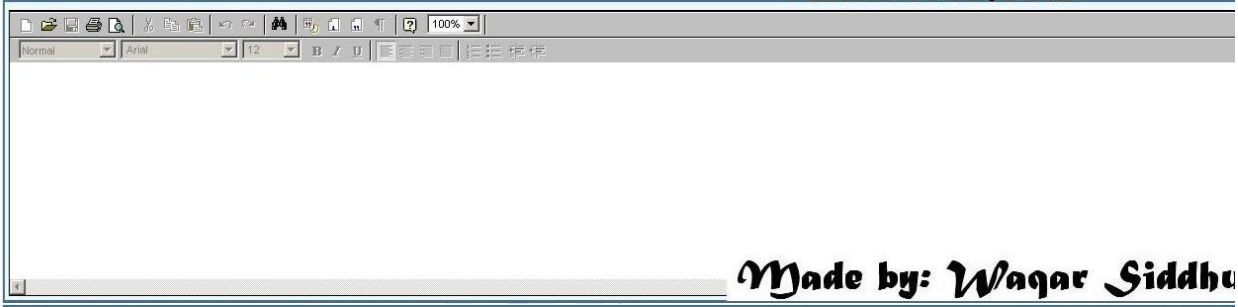
Made by: Waqar Siddhu

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)

VuAnswers.com



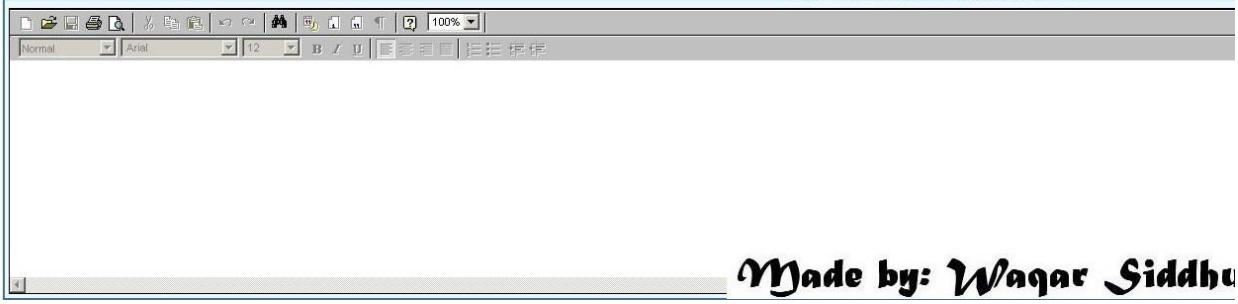
Made by: Waqar Siddhu

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)

VuAnswers.com



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Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

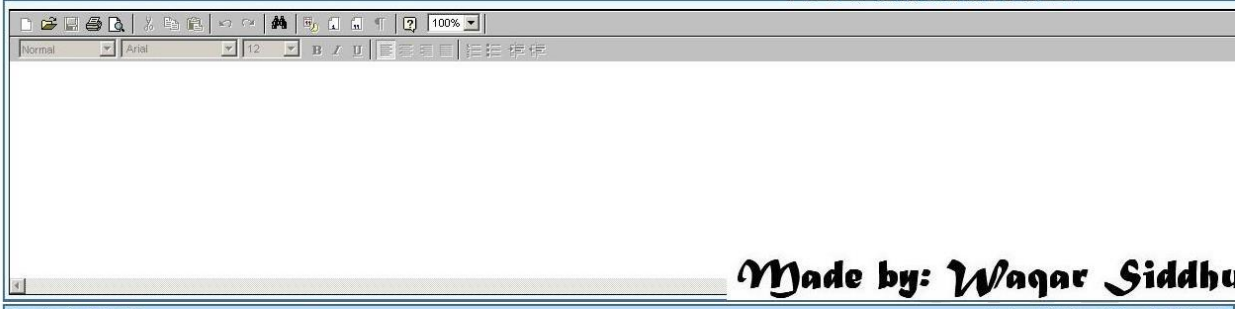
What will be the output of given program code ?

```
class File {

   private:
```

Answer (Please click here to Add Answer)

VuAnswers.com



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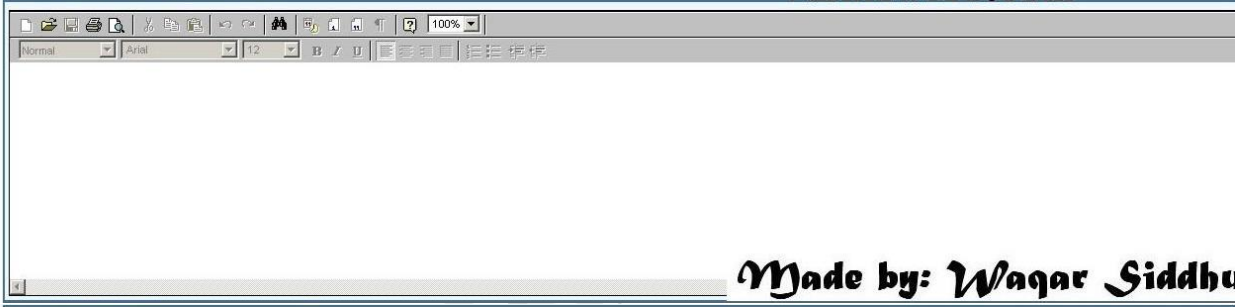
Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

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

   public:
```

Answer (Please click here to Add Answer)

VuAnswers.com



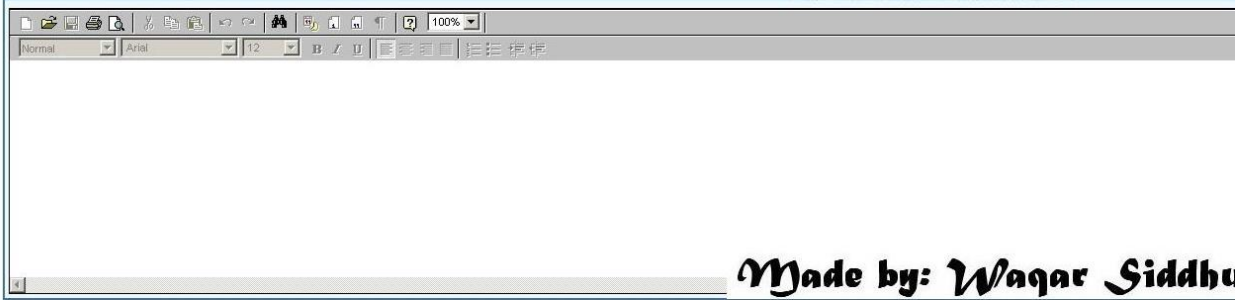
Made by: Waqar Siddhu

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

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

Answer (Please click here to Add Answer)

VuAnswers.com



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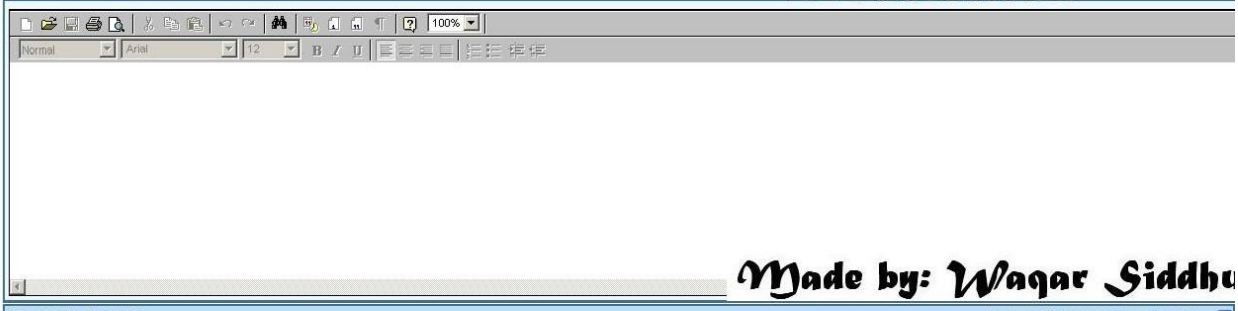
Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

```
    static int num_files;
};

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

Answer (Please click here to Add Answer)

VuAnswers.com



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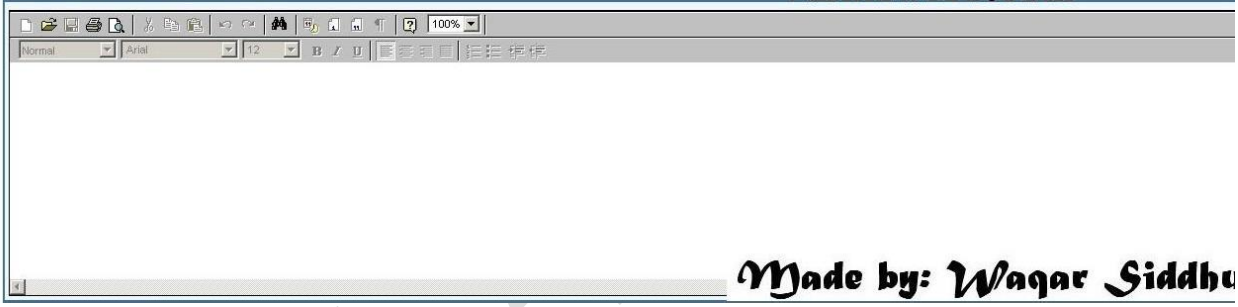
Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

```
main()
{
  File f1;

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

Answer (Please click here to Add Answer)

VuAnswers.com



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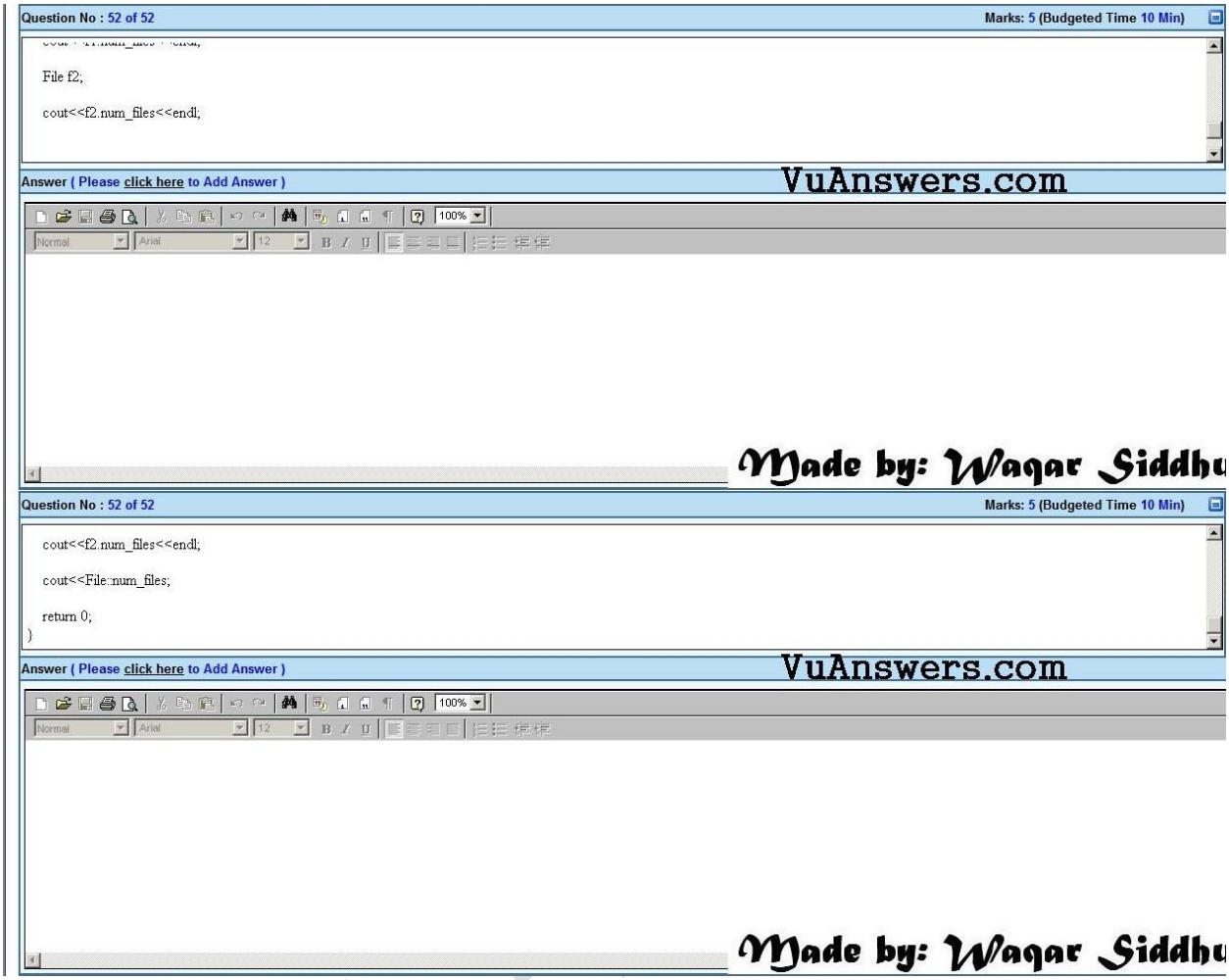

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