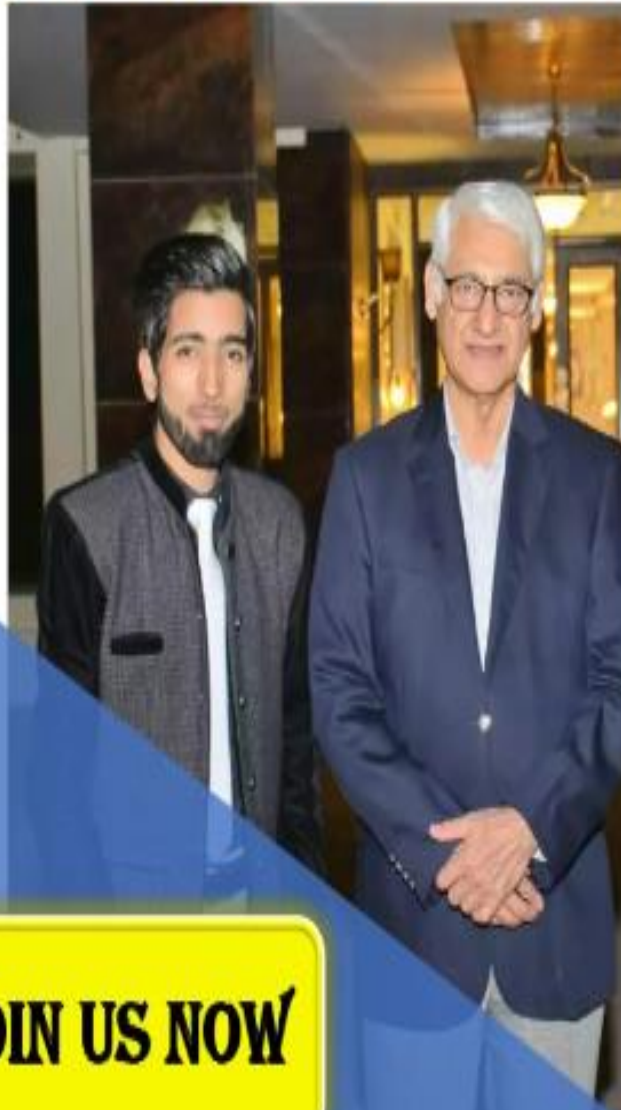


CS201 Important Topics Final Term By Vu Topper RM

وَعَزُّ مَنْ تَشَاءُ وَتَذَلُّ مَنْ تَشَاءُ

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- 1) **Destructor.**
- 2) **This Pointer.**
- 3) **Matrix Class.**
- 4) **New Operator.**
- 5) **STL stands for.**
- 6) **Friend Classes.**
- 7) **Template Class.**
- 8) **Class & Object.**
- 9) **Delete Operator.**
- 10) **Friend Function.**
- 11) **Template Function.**
- 12) **Memory allocation.**
- 13) **Function Overriding.**
- 14) **Function Overloading.**
- 15) **Default constructor.**
- 16) **Constructor and its Types.**

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- 17) Equal (==) Operator Overloading.
- 18) Matrix and Transpose of a Matrix.
- 19) Operator Overloading and its Types.
- 20) Operators which can't be overloaded.
- 21) Approaches for operator overloading.
- 22) Decrement (--) Operator Overloading.
- 23) Increment (++) Operator Overloading.
- 24) Assignment (=) Operator Overloading.
- 25) Write program for function overloading.
- 26) Static and Dynamic Memory Allocation.

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27) Advantage and Disadvantage of Template.

28) What function is use to free memory allocation.

29) Overloading (Insertion and Extraction Operator).

30) Can we change the behavior of overloaded operator -(minus)?

31) Swap values using pointer different between structure and class.

32) How many arguments does non-member operators functions take?

33) How many arguments does functions members operators functions take?

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- 34) What happens when we not free memory array [2][3] number of elements?
- 35) What will be the first argument for the overloading stream insertion (<<) operator and stream extraction (>>) operator?
- 36) Write a program for an overloaded increment operator (++) with the functionality of both the pre increment and post increment!
- 37) Write c++ code to set precision up to 3 decimal places of float value 1.2345678 which will give a 9-digit float output with preceding 0s.

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38) Identify and correct errors in the following code:

```
char *string [];  
string==new [20];  
loose string;
```

39) Write the output of the following code:

```
void sample (int& a, int& b, int& c)  
{  
    a *= 2;  
    b *= 3;  
    c *= 4;  
}  
int main()  
{  
    int x=1, y=3, z=7;  
    sample(x, y, z);  
    cout<<x<<y<<z;  
    return 0;  
}
```

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39) How many times the following loop execute for(n=3,n<=12,n++).

40) There are errors in the following code. Identify and briefly explain each error.

class Sample:

{

private:

int year;

int day;

int month;

Public:

setMonth(int x);

setDay(int y);

}

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41) Here is a Date class:

```
class Date  
{  
private:  
    int year;  
    int day;  
    int month;  
public:  
    Date() {  
        day = 1;  
        month = 1;  
        year = 2000; };
```

Write a class Person, with the members char pointer name, char pointer addresses and an object of Date class. Also write a default constructor that should assign the members of the Person class and the Members of the Date class to a default value.

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42) What will be output if function will call 5 times

```
void function ()
```

```
{int x=0;
```

```
x++;
```

```
cout<<x<<endl;}
```

43) Write program that will give the output the sum of x and y is 13.

sum the values using Macros SUM that will take two variables x and y.

44) Declare 5 integers, store the values given below and then use the set fill and setw to display the output like the following:

```
xxxxxx1000
```

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xxxxxx1200

xxxxxx20000

xxxxxx30000

xxxxxx60000

45) What will be output of program

```
cout.setf(ios::floatfield,ios::fixed);
```

```
cout<<setprecision(5)<<1234.537<<endl;
```

```
cout.setf(ios::floatfield,ios::scientific);
```

```
cout<<setprecision(5)<<1234.537<<endl;
```

46) What will be output of following function.

```
main()
```

```
{
```

```
int n;
```

```
for(n=5,n>0,n--)
```

```
{
```

```
cout<<n;
```

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```
if n==3  
break;}}
```

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