

COURSES



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Output of C++ Program | Set 16

Predict the output of following C++ programs.

Question 1

```
#include<iostream>
using namespace std;

class Base
{
public:
    int fun()      { cout << "Base::fun() called"; }
    int fun(int i) { cout << "Base::fun(int i) called"; }
};

class Derived: public Base
{
public:
    int fun(char x)  { cout << "Derived::fun(char ) called"; }
};

int main()
{
    Derived d;
    d.fun();
    return 0;
}
```

Output: Compiler Error.

In the above program, fun() of base class is not accessible in the derived class. If a derived class creates a member method with name same as one of the methods in base class, then all the base class methods with this name become hidden in derived class (See [this](#) for more details)

Question 2

```
#include<iostream>
```



```

using namespace std;
class Base
{
    protected:
        int x;
    public:
        Base (int i){ x = i;}
};

class Derived : public Base
{
    public:
        Derived (int i):x(i) { }
        void print() { cout << x ; }
};

int main()
{
    Derived d(10);
    d.print();
}

```

Output: Compiler Error

In the above program, x is protected, so it is accessible in derived class. Derived class constructor tries to use **initializer list** to directly initialize x, which is not allowed even if x is accessible. The members of base class can only be initialized through a constructor call of base class. Following is the corrected program.

```

#include<iostream>
using namespace std;
class Base {
    protected:
        int x;
    public:
        Base (int i){ x = i;}
};

class Derived : public Base {
    public:
        Derived (int i):Base(i) { }
        void print() { cout << x; }
};

int main()
{
    Derived d(10);
    d.print();
}

```

 10

Output:

10



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