Handling Parametrized Constructors In Inheritance

If the constructor in Base class is parametrized then we must call that constructor from the constructor of derived class explicitly . Otherwise the compiler will generate syntax error

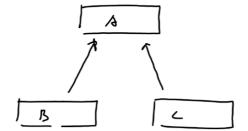
```
#include <iostream>
using namespace std;
class A
{
public:
    A(int i)
    {
        cout<<"In constructor of base class A"<<endl;
    }
    ~A()
    {
        cout<<"In destructor of base class A"<<endl;
    }
};</pre>
```

```
class B:public A
{
public:
    B():A(25) // Explicit inline call of Constructor
    {
        cout<<"In constructor of derived class B"<<endl;
    }
    ~B()
    {
        cout<<"In destructor of derived class B"<<endl;
    }
};
int main()
{
        B obj;
        return 0;
```

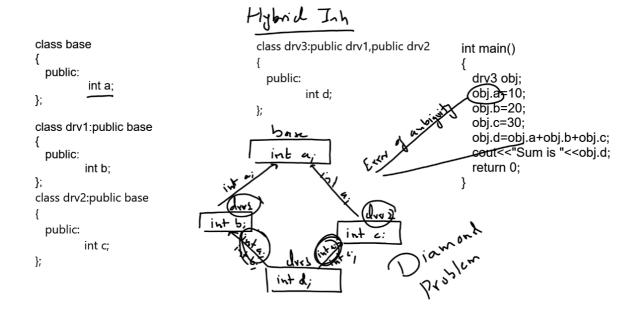
```
#include <iostream>
using namespace std;
class Num
{
    protected:
        int a,b;
    public:
        Num(int i,int j)
        {
            a=i;
            b=j;
        }
        void show()
        {
            cout<<"a="<<a<",b="<<b<<endl;
        }
};</pre>
```

```
#include <iostream>
using namespace std;
class Num
{
    protected:
        int a,b;
    public:
        Num(int i,int j)
        {
            a=i;
           b=j;
        }
        void show()
        {
            cout<<"a="<<a<",b="<<b<<endl;
        }
};</pre>
```

Hierarchial Inheritance



```
class Rectangle: public Figure
                                                                                                                 int main()
class Figure
                                                    {
                                                      public:
                                                              void area()
 protected:
                                                                                                                   Rectangle R;
         int dim1,dim2;
                                                               cout<<"Rect area="<<dim1*dim2;
                                                                                                                   R.get();
public:
                                                                                                                   R.show();
       void get()
                                                    };
class Triangle:public Figure
                                                                                                                   R.area();
          cout<<"enter dimensions:";
                                                                                                                   Triangle T;
          cin>>dim1>>dim2;
                                                                                                                   T.get();
T.show();
                                                    public:
                                                              void area()
       void show()
                                                                                                                   T.area();
return 0;
                                                               cout<<"Tri area="<<0.5*dim1*dim2;
         cout<<dim1<<","<<dim2<<endl;
                                                    };
};
```



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