Roll Number: _____

Total Time: 10 Minutes

Total Marks: 10

Important Note: Negative marks will be awarded for any suspicious activity found during/in the quiz.

Question: For the code segment given below identify output or error. In case of error highlight the line that will cause the error.

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

class A
{
private:
        int* aptr;
public:
        A(int a = 5)
        {
                aptr = new int(a);
        }
        virtual void Print(){
                cout<<"a = "<<*aptr<<endl;
        }
        ~A()
        {
                cout << "~A() called.\n";
                if(aptr != 0)
                        delete aptr;
        }
};

class B : public A
{
private:
        int* bptr;
public:
        B(int b = 10)
        {
                bptr = new int(b);
        }
        void Print(){ A::Print(); cout<<"
b = " << *bptr << endl; }
        ~B()
        {
                cout << "~B() called.\n";
                if(bptr != 0)
                        delete bptr;
        }
};

class C : public A
{
private:
        int* cptr;
public:
        C(int c= 15)
        {
                cptr = new int(c);
        }
        void Print(){ A::Print(); cout <<
" c = " << *cptr << endl; }
        ~C()
        {
                cout << "~C() called.\n";
                if(cptr != 0)
                        delete cptr;
        }
};

void main()
{
        A* aptr[3];
        aptr[0] = new B(1);
        aptr[1] = new C(2);
        aptr[2] = new A(3);

        for (int i = 0; i < 3; i++)
                aptr[i]->Print();

        for (int i = 0; i < 3; i++)
                delete aptr[i];
}
```

Output: