

CSCI 140 -- In-Class Exercise 1

Group Members	Contribution (0 to 10) 0 – no contribution, 10 -- most
Nero Li	10
Christian Gonzalez	10
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Daniel Kang	10

It is best to share a screen via Zoom and work together. Your group can provide the solution in C++ or Java.

Note taker (responsible to collect information and submit it):

Nero Li

Provide the code for classes A, B, and C using the information below. Do not worry about data and actual code for each operation (just the header and {} if needed).

```
#include <iostream>

using namespace std;

class A
{
    public:
        A()
        {
            cout << "A:Construct\n";
        }
        void print1()
        {
            cout << "A:print1()\n";
        }
        virtual void print2()
        {
            cout << "A:print2()\n";
        }
        virtual void print3()
```

```
        {
            cout << "A:print3()\n";
        }
};

class B : public A
{
    public:
        B()
        {
            cout << "B:Construct\n";
        }

        void print2()
        {
            cout << "B:print2()\n";
        }
        void print3()
        {
            cout << "B:print3()\n";
        }
};

class C : public A
{
    public:
        C()
        {
            cout << "C:Construct\n";
        }
        void print1()
        {
            cout << "C:print1()\n";
        }
        void print2()
```

```

        {
            cout << "C:print2()\n";
        }
        void print3()
        {
            cout << "C:print3()\n";
        }
    };

int main()
{
    A *pA;
    pA = new A();    // syntax error

    pA = new B();    // create an object of type B
    pA->print1();    // run A's print1()
    pA->print2();    // run B's print2()
    pA->print3();    // run B's print3()

    pA = new C();    // create an object of type C
    pA->print1();    // run A's print1()
    pA->print2();    // run C's print2()
    pA->print3();    // run C's print3()

    B *pB;
    pB = new B();    // create an object of type B
    pB->print1();    // run A's print1()
    pB->print2();    // run B's print2()
    pB->print3();    // run B's print3()

    C *pC;
    pC = new C();    // create an object of type C
    pC->print1();    // run C's print1()
    pC->print2();    // run C's print2()
    pC->print3();    // run C's print3()
}

```

```
    return 0;  
}
```