

## PL Assignment 5

Vinen Furtado vfurtad1@binghamton.edu  
Shriram Suryawanshi ssuryaw1@binghamton.edu

```
5. public class A {  
    public void p() { System.out.println("A.p");}  
    public void q() { System.out.println("A.q");}  
    public void r() { p(); q();} }
```

```
class B extends A {  
    public void p() { System.out.println("B.p");} }
```

```
class C extends B {  
    public void q() { System.out.println("C.q");}  
    public void r() { q(); p();} }
```

```
...  
A a = new B();  
a.r();  
a = new C();  
a.r();
```

Output: B.p  
        A.q  
        C.q  
        B.p

```
6. class A{  
    public: virtual void p(){cout << "A.p"<< endl;}  
    void q(){cout << "A.q" << endl;}  
    virtual void r(){p(); q();} ;
```

```
class B: public A{  
    public: void p(){cout << "B.p" << endl;} ;
```

```
class C: public B{  
    public: void q(){cout << "C.q" << endl;}  
    void r(){q(); p();} ;
```

```
...  
A a;  
C c;  
a = c;  
a.r();  
A* ap = new B;  
ap -> r();  
A* ap1 = new C;  
ap1 -> r();
```

Output : A.p

A.q

B.p

A.q

C.q

B.p

```
7. Class A {
public: virtual void f();
virtual void g();
private: int a; }
```

```
class B: public A {
public: void f();
void h();
private: int b; }
```

```
Class C: public B {
public: void g();
Private: int c; }
```

Answer: VMT Table

