

CS313 Quiz1

FirstName: _____ LastName _____ CUNY ID _____

```
public abstract class Base {
    private int val;

    public Base(int val) {this.val = val;}

    public void printVal() {System.out.println("Val in base class: "+getVal()); }

    public int getVal() {return val;}

    private void f() { System.out.println("Value in base is "+getVal());}

    public static void main(String [] args){
        Base a = new Sub1();
        a.printVal(); //-----line 1
        a.f(); //-----line 2
        Base b = new Sub2<Integer>(50);
        b.printVal(); //-----line 3
        b.f(); //-----line 4
        ((Sub2<Integer>)b).g(); //-----line 5
    }
}

class Sub1 extends Base{
    private int val;
    public Sub1() {
        super(1);
        val =20;
    }
    public void printVal() {
        super.printVal();
        System.out.println("Val in sub class: "+ getVal());
    }
    public int getVal() {return val; }
}

class Sub2<E> extends Base{
    private E data;
    public Sub2(E data) {
        super(2);
        this.data = data;
    }
    public void f() { System.out.println("value in Sub2 is"+" "+getVal());}
    public void g() { System.out.println("Data in Sub2 is "+data); }
```

```
}
```

This program will print **6** lines:

1)

2)

3)

4)

5)

6)