Inheritng One Interface Into Another

```
interface I1
{
   void m1();
}
interface I2
{
    void m2();
}
interface I3 extends I1,I2
{
   void m3();
}
```

```
class C implements I3
{

 // override all 3 methods
}
```

```
interface I1
{
   void m1();
}
interface I2 extends I1
{
    void m2();
}
```

```
interface Shape {
   double area();

}

interface Figure {
   double getName();

}
```

```
interface MyShape extends Shpae,Figure{

}
```

```
class Circle implements MyShape {
   private int radius;
   public Circle(int radius) {
      this.radius = radius;
   }
   @Override
   public double area() {
      return Math.PI*Math.pow(radius,2);
   }
   @Override
   public String getName() {
      return "Circle";
   }
}
```

```
class Rectangle implements MyShape{
   private int l,b;
   public Rectangle(int l, int b) {
      this.l = l;
      this.b = b;
   }
   @Override
   public double area() {
      return l*b;
   }
   @Override
   public String getName() {
      return "Rectangle";
   }
}
```

```
class UseMyShape {
    public static void main(String[] args) {
        MyShape S;
        S=new Circle(10);
        System.out.println("Shape is "+S.getName());
        System.out.println("Its area is "+S.area());
        S=new Rectangle(5,7);
        System.out.println("Shape is "+S.getName());
        System.out.println("Its area is "+S.area());
    }
}
```

Abstract Class	Interface(Prior To Java 8)