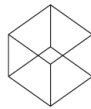


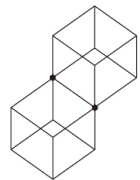
# Adapter 패턴

---



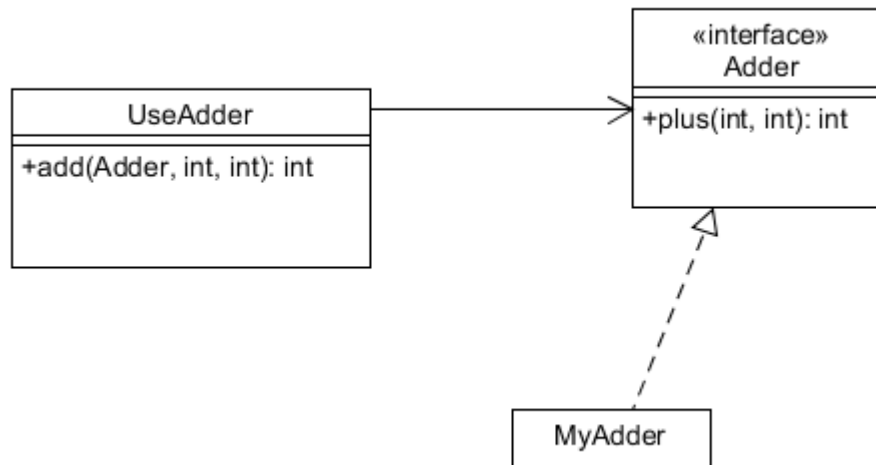
JAVA  
개체 지향  
디자인 패턴

UML과 GoF 디자인 패턴 핵심 10가지로 배우는



# 예제 프로그램 설계도

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# 소스코드

---

```
public interface Adder {  
    public int plus(int x, int y);  
}
```

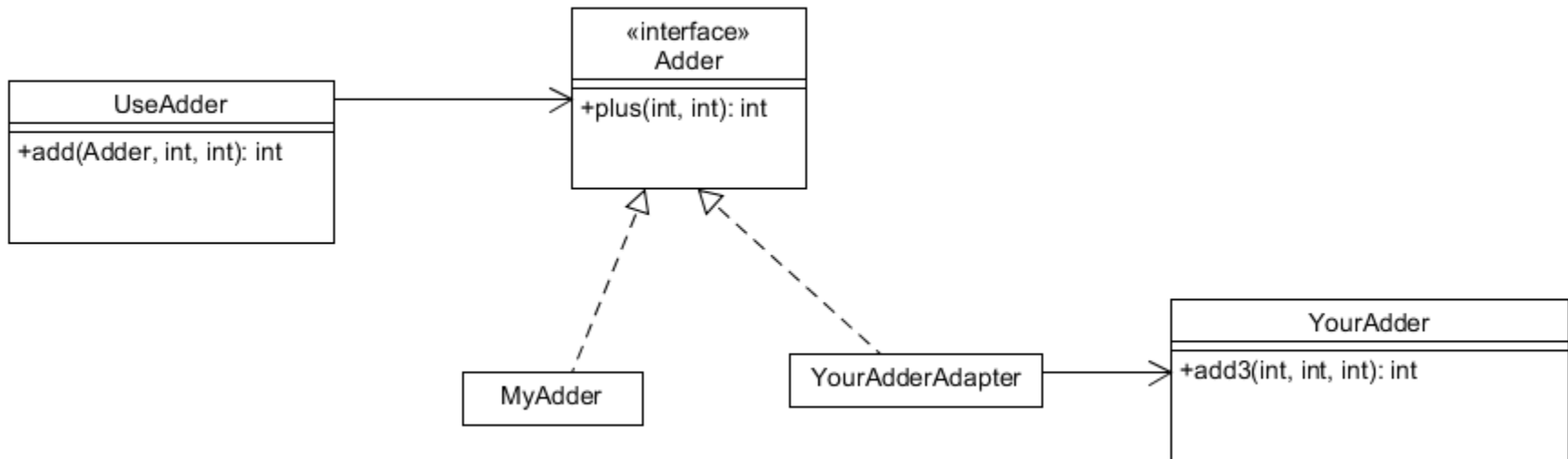
```
public class MyAdder implements Adder {  
    @Override  
    public int plus(int x, int y) {  
        return x + y;  
    }  
}
```

```
public class Main {  
    public static void main(String[] args) {  
        Adder adder = new MyAdder();  
        UseAdder use = new UseAdder();  
        System.out.println(use.add(adder, 10, 20));  
    }  
}
```

```
public class UseAdder {  
    public int add(Adder adder, int x, int y) {  
        int r = 0;  
        r = adder.plus(x, y);  
        return r;  
    }  
}
```

# 제약

- ❖ 특정 회사에서 제공하는 Adder(eg. YourAdder)를 사용해야 하고 라이브러리 형태로 제공되어 수정 할 수 없다.
- ❖ 클라이언트 코드도 수정할 수 없다.
- ❖ Adapter 생성



# 소스 코드

---

```
public class YourAdderAdapter implements Adder {  
    private YourAdder yourAdder;  
    public YourAdderAdapter(YourAdder yourAdder) {  
        this.yourAdder = yourAdder;  
    }  
    @Override  
    public int plus(int x, int y) {  
        return yourAdder.add3(x, y, 0);  
    }  
}
```

```
        public int add3(int x, int y, int z) {  
            return x + y + z;  
        }  
    }
```

# Main

---

```
public class Main {  
    public static void main(String[] args) {  
        Adder adder = new MyAdder();  
        UseAdder use = new UseAdder();  
        System.out.println(use.add(adder, 10, 20));  
        Adder adder1 = new YourAdderAdapter(new YourAdder());  
        System.out.println(use.add(adder1, 10, 20));  
    }  
}
```

# Adapter 패턴

