# **Overriding Method Access Modifiers**

Yes, you are **absolutely right**, and this is an **important rule in Java method overriding**.



The **access modifier** of an overriding method **must be the same or more accessible (wider)** than the method being overridden.

### **Access Modifier Levels (from most restrictive to most accessible):**

Modifier	Accessible To
private	Only within the same class
(default)	Only within the same package
protected	Same package + subclasses (even in other packages)
public	Accessible from anywhere

## **Explanation:**

When you override a method, the subclass version **should not restrict** access more than the superclass method. Otherwise, it would **break the principle of polymorphism**, where a subclass should be usable wherever its superclass is.

### X Invalid Example (Compiler Error):

```
class Parent {
protected void display() {
    System.out.println("Parent");
```

## **Valid Examples:**

#### 1. Same access modifier:

#### 2. Wider access modifier:

## Note:

- If the parent method is private, it is **not visible** to the child, so **no overriding** happens it's a **new method** in the child.
- The compiler will catch access modifier violations during override.

## **©** Conclusion:

"Access modifier of the overriding method must be same or more accessible (wider) than that of the overridden method."

Let me know if you want a memory trick, diagram, or interview question on this!