**class** Shape {

**void** area() {

System.***out***.println("Area method with no parameters");

}

**void** area (**int** side) {

System.***out***.println("Area of square: " + (side \* side));

}

}

**class** Rectangle **extends** Shape {

**void** area (**int** length, **int** width) {

System.***out***.println("Area of rectangle: " + (length \* width));

}

**public** **class** OverloadingInheritance() {

}

**public** **static** **void** main(String[] args)

{

Shape rect;

rect.area();

rect.area();

rect.area(5);

rect.**package** simple;

area(4);

}

}

Output:

Area method with no parameters

Area of square: 25

Area of rectangle: 24