# Examples of Access Protection

Now let's try to directly access the fields from another class and see what happens:

class CarTest8 {  
  
 public static void main(String args[]) {  
   
 Car c = new Car("New York A45 636", 100.0);  
   
 c.licensePlate = "New York A45 636";  
 c.speed = 0.0;  
 c.maxSpeed = 123.45;  
   
 System.out.println(c.licensePlate + " is moving at " + c.speed +   
 " kilometers per hour.");  
  
 c.floorIt();  
   
 System.out.println(c.licensePlate + " is moving at " + c.speed +   
 " kilometers per hour.");  
  
 }  
   
}

Here's what happens when you try to compile it against the revised Car class:

% javac Car.java  
% javac CarTest8.java  
CarTest8.java:7: Variable licensePlate in class Car not accessible from class CarTest8.  
 c.licensePlate = "New York A45 636";  
 ^  
CarTest8.java:8: Variable speed in class Car not accessible from class CarTest8.  
 c.speed = 0.0;  
 ^  
CarTest8.java:9: Variable maxSpeed in class Car not accessible from class CarTest8.  
 c.maxSpeed = 123.45;  
 ^  
CarTest8.java:11: Variable licensePlate in class Car not accessible from class CarTest8.  
 System.out.println(c.licensePlate + " is moving at " + c.speed +  
 ^  
CarTest8.java:11: Variable speed in class Car not accessible from class CarTest8.  
 System.out.println(c.licensePlate + " is moving at " + c.speed +  
 ^  
CarTest8.java:16: Variable licensePlate in class Car not accessible from class CarTest8.  
 System.out.println(c.licensePlate + " is moving at " + c.speed +  
 ^  
CarTest8.java:16: Variable speed in class Car not accessible from class CarTest8.  
 System.out.println(c.licensePlate + " is moving at " + c.speed +  
 ^  
7 errors  
%

[Previous](http://docs.google.com/24.html) | [Next](http://docs.google.com/26.html) | [Top](http://docs.google.com/index.html) | [Cafe au Lait](http://www.cafeaulait.org/)

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