Solution Review: Make a Rectangle

This lesson discusses the solution to the challenge given in the previous lesson.

```
package main
                                                                                     (二)
import "fmt"
type Rectangle struct { // struct of type Rectangle
    length, width int
func (r *Rectangle) Area() int {
                                    // method calculating area of rectangle
   return r.length * r.width
}
func (r *Rectangle) Perimeter() int { // method calculating perimeter of rectangle
    return 2* (r.length + r.width)
}
func main() {
   r1 := Rectangle{4, 3}
   fmt.Println("Rectangle is: ", r1)
   fmt.Println("Rectangle area is: ", r1.Area()) // calling method of area
   fmt.Println("Rectangle perimeter is: ", r1.Perimeter()) // calling method of perimeter
                                                                           A
```

Make a Rectangle

In the above code, at **line 4**, we make a struct Rectangle containing two fields length and width of type *int*. Then, we have two important methods Area() and Perimeter(). Look at the header of Area method at **line 8** as: func (r *Rectangle) Area() int . It returns the area of rectangle r, i.e., r.Length*r.Width . Now, look at the header of Perimeter method at **line 12** as: func (r *Rectangle) Perimeter() int . It returns the perimeter of rectangle r, i.e., 2*(r.Length+r.Width) . Let's see the main function. At **line 17**, we make a rectangle r1 with literal expression r1 := Rectangle{3,4} . In the next line, we are printing r1, which will automatically print the fields of r enclosed within braces({}). At **line 19**, we are calling method Area() on r1 and printing the returned value, which is **12**, the area of r1 . At **line 20**, we are calling

method Perimeter() on r1 and printing the returned value, which is 14, the perimeter of r1.

That's it for the solution. In the next lesson, you'll be attempting another challenge.