

# CS 200: Faking It

## Lecture Notes - Instructor Version

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Welcome to the class!

⟨ Go over Syllabus. ⟩

Squares are really awesome objects. I love them!

<b>Q:</b> Does anyone else love squares?
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<b>Q:</b> How many sides are in a square?
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<b>A:</b> Four.
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<b>Q:</b> What's another kind of shape with four sides?
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<b>A:</b> All okay: Rectangle, Rhombus, Parallelogram, Quadrilateral, Kite.
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**Def:** Square A *square* is a polygon with four right angles and four sides of equal length.

### Example: Square

The following points are corners of a square:  $(0, 0)$ ,  $(2, 0)$ ,  $(0, 2)$ ,  $(2, 2)$ .

The following code could be used to create a Square object in Java:

```
int sideLength = 4;  
Square square = new Square(sideLength);
```

## Exercises for 0.0

### Exercise 0

(Answer in Appendix)

How many sides does a square have?

### Exercise 1

If one side of a square has length 1, what is the total perimeter of that square?

↔ *HOMEWORK* : Chapter 0, Section 0, Problems: 0, 3, and 5. ↔

## A Answers to Exercises

### Answer of exercise 0.0.0

A square has four sides.

### Answer of exercise 0.0.1

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