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Builder in Java

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Another Builder Java example

```
/* "Product" */
class Pizza {
   private String dough = "";
   private String sauce = "";
   private String topping = "";
   public void setDough(String dough) {
        this.dough = dough;
   }
   public void setSauce(String sauce) {
        this.sauce = sauce;
   }
   public void setTopping(String topping) {
        this.topping = topping;
   }
}
/* "Abstract Builder" */
abstract class PizzaBuilder {
   protected Pizza pizza;
   public Pizza getPizza() {
        return pizza;
   }
   public void createNewPizzaProduct() {
        pizza = new Pizza();
   }
   public abstract void buildDough();
   public abstract void buildSauce();
   public abstract void buildTopping();
}
/* "ConcreteBuilder" */
class HawaiianPizzaBuilder extends PizzaBuilder {
   public void buildDough() {
        pizza.setDough("cross");
   }
   public void buildSauce() {
        pizza.setSauce("mild");
   }
   public void buildTopping() {
        pizza.setTopping("ham+pineapple");
```

```
}
}
/* "ConcreteBuilder" */
class SpicyPizzaBuilder extends PizzaBuilder {
    public void buildDough() {
        pizza.setDough("pan baked");
    }
    public void buildSauce() {
        pizza.setSauce("hot");
    }
    public void buildTopping() {
        pizza.setTopping("pepperoni+salami");
    }
}
/* "Director" */
class Waiter {
    private PizzaBuilder pizzaBuilder;
    public void setPizzaBuilder(PizzaBuilder pb) {
        pizzaBuilder = pb;
    }
    public Pizza getPizza() {
        return pizzaBuilder.getPizza();
    }
    public void constructPizza() {
        pizzaBuilder.createNewPizzaProduct();
        pizzaBuilder.buildDough();
        pizzaBuilder.buildSauce();
        pizzaBuilder.buildTopping();
    }
}
/* A customer ordering a pizza. */
public class PizzaBuilderDemo {
    public static void main(String[] args) {
        Waiter waiter = new Waiter();
        PizzaBuilder hawaiianPizzabuilder = new HawaiianPizzaBuilder();
        PizzaBuilder spicyPizzaBuilder = new SpicyPizzaBuilder();
        waiter.setPizzaBuilder( hawaiianPizzabuilder );
        waiter.constructPizza();
        Pizza pizza = waiter.getPizza();
```

```
}
```

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Code examples

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