Enumerated Types

- Enumerated types (enums) in Java are way more versatile than enums in C
- Enums are a special type of class
 - You can declare fields and methods
 - In their most basic form they are very simple
 - Simple enum:

```
public enum FoodGroup {
          CANDY, CANDYCANES, CANDYCORNS, SYRUP;
    }
```

```
public class PoisonDetector {
        private final FoodGroup edible;
        private PoisonDetector (Food food)
@
            if (food.isSweet()) {
                if (food.isPeppermint() && food.isStripey()) {
                    edible = FoodGroup.CANDYCANES;
                } else if (food.isLiquid()) {
                    edible = FoodGroup.SYRUP;
                } else if (food.looksLikeCorn()) {
                    edible = FoodGroup.CANDYCORNS;
                } else {
                    edible = FoodGroup.CANDY;
            } else {
                edible = NULL;
        public FoodGroup canIEatIt() { return edible; }
```

Using Enums

NO!

Add a default/ error value to the enum

```
Easy Fix
```

```
public class PoisonDetector {
          private final FoodGroup edible;
4 @
          private PoisonDetector (Food food)
              if (food.isSweet()) {
                  if (food.isPeppermint() && food.isStripey()) {
                      edible = FoodGroup.CANDYCANES;
                  } else if (food.isLiquid()) {
                      edible = FoodGroup.SYRUP;
                  } else if (food.looksLikeCorn()) {
                      edible = FoodGroup.CANDYCORNS;
                  } else {
                      edible = FoodGroup.CANDY;
              } else {
                  edible = FoodGroup.DONOTEAT;
          public FoodGroup canIEatIt() { return edible; }
```

Set this to the new default value instead of null