COMPARING APPLES AND ORANGES

Getting Back in Control

YOU KNOW WHAT'S COMING



KAHOOT





TRY NOW!

Make a program that outputs the price of bananas.

- 1. Ask the user how many bananas they want
- 5 or less bananas cost 50 cents each, 5 to 10 cost 35 cents each, 10 or more cost 25 cents each
- Output how much the customer's order will cost



- What if you want to get the type of fruit the user wants?
 - Apple, banana,pineapple
- How do you represent apple vs. banana?

REMEMBER THAT STRINGS ARE COMPLEX

- A String is actually a bunch of char(acters) concatenated together
- So to compare Strings, you actually need to compare each character inside



COMPARING APPLES AND ORANGES

 Lucky for us, Java gives us a way to do this quickly and easily

```
String name = "Andrew";
if ( name.equals("Andrew") ){
    System.out.println("You're a cool guy!");
}
```

BOOLEANS AND LOGICAL OPERATORS

&& - and

|| - or

- Two things that you'll find very useful are logical operators
- If I want to check if two different conditions are true, I use and
- If I want to check if either one condition or another are true, use or

How do I check if an integer is greater than 10 and less than 50?

```
int number = 35;
if ((number > 10) && (number < 50)) {
    System.out.println("It is between 10 and 50!");
}</pre>
```

How do I check if a String is "Andrew" or "Ryan"?

```
String name = "Andrew";
if ((name.equals("Andrew")) || (name.equals("Ryan"))
   System.out.println("You must be cool!");
```

COMPARING APPLES AND BANANAS







BANANA PRICES... NOW WITH APPLES!

Make a program that outputs the price of bananas and the price of apples 1) Ask the user if they want apples or bananas

b) 10 cents for orders between 10 - 20 (inclusive)

- 2) Ask how many of that fruit they want
- 3) Apples cost
 - a) 15 cents for orders less than 10
 - c) 5 cents for any more than 20
- 4) Bananas cost
 - a) 50 cents each for orders less than 5
 - b) 35 cents for orders 5 10 (inclusive)
 - c) 25 cents for orders more than 10
- 5) Print the total cost (in cents) and the type of the fruit

BOOLEANS EXPRESSIONS

```
if ( what goes here? ){
   // do something
}
```

 An expression that evaluates to true or false

BOOLEANS AND RELATIONAL OPERATORS

- So how do you make an expression?
 - o You compare things!
- How do you compare things?
 - Relational operators...