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Lesson 3:  
Conditionals

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✓ 1. Intro to Conditionals

✓ 2. Quiz: Flowcharts (3-1)

✓ 3. Flowchart to Code

✓ 4. If...Else Statements

✓ 5. Else If Statements

✓ 6. Quiz: Even or Odd (3-2)

✓ 7. Quiz: Musical Groups (3-3)

✓ 8. Quiz: Murder Mystery (3-4)

✓ 9. More Complex Problems

✓ 10. Logical Operators

✓ 11. Logical AND and OR

✓ 12. Quiz: Checking your Balance (3-5)

✓ 13. Quiz: Ice Cream (3-6)

✓ 14. Quiz: What do I Wear? (3-7)

● 15. Advanced Conditionals

● 16. Truthy and Falsy

● 17. Ternary Operator

● 18. Quiz: Navigating the Food Chain (3-8)

● 19. Switch Statement

● 20. Falling-through

● 21. Quiz: Back to School (3-9)

● 22. Lesson 3 Summary

Mentorship

Get support and stay on track

Directions:

Ice cream is one of the most versatile desserts on the planet because it can be done up so many different ways. Using logical operators, write a series of complex logical expressions that prints **only if** the following conditions are **true**:

- if **flavor** is set to **vanilla** or **chocolate** and
- if **vessel** is set to **cone** or **bowl** and
- if **toppings** is set to **sprinkles** or **peanuts**

If the above conditions are **true**, then print out:

I'd like two scoops of \_\_\_\_\_ ice cream in a \_\_\_\_\_ with \_\_\_\_\_.

Fill in the blanks with the flavor of the ice cream, vessel, and toppings. For example,

I'd like two scoops of vanilla ice cream in a cone with peanuts.

**TIP:** Make sure to test your code with different values. For example,

If **flavor** equals **"chocolate"**, **vessel** equals **"cone"** and **toppings** equals **"sprinkles"**, then **"I'd like two scoops of chocolate ice cream in a cone with sprinkles."** should be printed to the console.

Your Code:

```
1  /*
2   * Programming Quiz: Ice Cream (3-6)
3   *
4   * Write a single if statement that logs out the message:
5   *
6   * "I'd like two scoops of _____ ice cream in a _____ with _____."
7   *
8   * ...only if:
9   *   - flavor is "vanilla" or "chocolate"
10  *   - vessel is "cone" or "bowl"
11  *   - toppings is "sprinkles" or "peanuts"
12  *
13  * We're only testing the if statement and your boolean operators.
14  * It's okay if the output string doesn't match exactly.
15  */
16
17 // change the values of `flavor`, `vessel`, and `toppings` to test your code
18 var flavor = "strawberry";
19 var vessel = "cone";
20 var toppings = "cookies";
21
22 // Add your code here
23
24 if (flavor === ("vanilla" || "chocolate") || vessel === ("cone" || "bowl") || toppings === ("sp
25   console.log("I'd like two scoops of " + flavor + " ice cream in a " + vessel + " with " + toppi
26 } else {
27   console.log("No Ice cream");
28 }
```

RESET QUIZ

TEST RUN

SUBMIT ANSWER

Have questions? Head to the [forums](#) for discussion with the Udacity Community.