




Week 4

Different format today!



Fix this function

```
int code_master(string n){  
  
    cout >> "Hello" >> n >> endl  
    "You are the code master!";  
    return n;  
}
```

Fix this function

```
int code_master(string n){  
  
    cout >> "Hello_" >> n >> endl_  
    ____ "You are the code master!";  
    return n;  
}
```

Corrected function:

```
string code_master(string name_in){  
  
    cout << "Hello_" << name_in << endl;  
    cout << "You are the code master!";  
    return name_in;  
}
```

Conditionals

- What is a conditional?
 - **A statement with a condition**
- If something evaluates to true, we want to do one thing
- If that thing evaluates to false, we want to do something else
 - ^ general idea

Example of Branching – pseudo-code*

```
if (sunny && above60){  
    cout << "Let's play outside!" << endl;  
}  
else if (rainy){  
    cout << "Let's watch a movie!";  
    cout << endl;  
}  
else{  
    cout << "I can't decide!" << endl;  
}
```

Class Exercise: Nested Conditionals

- Take 5 minutes to try to write out the following scenario in pseudocode – we will turn it into full code as a class

Scenario:

- It costs 10000 dollars to go on a trip to Tuscany, and 7000 dollars to go on a trip to London
- Your user will run your program and you will read in how much money the user has
- There is a function called `doYouHaveVacationTime()` that will return true or false whether the user has vacation time (ask the user)
- You can't travel anywhere unless you have vacation time – you will watch Netflix at home instead
- If you can go to Tuscany you will; London is your second choice; if you can't afford either you will go somewhere in the US

A possible solution cpp will be posted

- A possible solution cpp file will be posted on canvas
- You can run it, debug it, etc
- Remember there are many ways to program this scenario – posted is just one
- Feel free to ask any questions now or after class!