Solution Review: Write Your First Higher-Order Function

In the following lesson, we will go over the solution for the challenge: Write Your First Higher-Order Function.

> **We'll cover the following** ⌃
>
> - Task
> - Solution

Task

In this challenge, you had to create a function that returns the result of another function.

Solution

A skeleton of the function was already provided for you. Let's look it over.

```
num arithmeticCalculator(Function f, int x, int y){

}
```

The function name is `arithmeticCalculator` and it has three parameters. The first parameter is another function, `f`. The second parameter is an integer, `x`, and the third parameter is an integer, `y`.

You had to write a line of code that would print the result of `f` given that it was passed `x` and `y` as arguments.

```
f(x,y)
```

You can find the complete solution below:

> You were required to write the code given on **line 2**.

```
num arithmeticCalculator(Function f, int x, int y){
  return f(x,y);
}

// Driver Code
num add(int a, int b) {
  return a + b;
}
int main() {
  var result = arithmeticCalculator(add,4,9);
  print(result);
}
```

Functions can also be assigned to variables, but before we can get into this, we need to learn about anonymous functions in the next lesson.