# **Exercise 1 - Debugging Odd or Even**

## **Instructions**

* Read this the code in main.py
* Spot the problems 🐞.
* Modify the code to fix the program.

Fix the code so that it works and passes the tests when you submit.

## Hint

1. Review the previous lesson and go through the 10 steps to tackle these debugging problems.

## **Test Your Code**

Check your code is doing what it is supposed to. When you're happy with your code, click submit to check your solution.

## **Solution**

<https://repl.it/@appbrewery/day-13-1-solution>

## **Code:**

**number = int(input("Which number do you want to check?"))**

**if number % 2 = 0:**

**print("This is an even number.")**

**else:**

**print("This is an odd number.")**

# **Exercise 2 - Debugging Leap Year:**

## **Instructions**

* Read this the code in main.py
* Spot the problems 🐞.
* Modify the code to fix the program.
* No shortcuts - don't copy-paste to replace the code entirely with a working solution.

Fix the code so that it works and when you hit submit it should pass all the tests.

## **Test Your Code**

Check your code is doing what it is supposed to. When you're happy with your code, click submit to check your solution.

## **Solution**

<https://repl.it/@appbrewery/day-13-2-solution>

## **Code:**

**year = input("Which year do you want to check?")**

**if year % 4 == 0:**

**if year % 100 == 0:**

**if year % 400 == 0:**

**print("Leap year.")**

**else:**

**print("Not leap year.")**

**else:**

**print("Leap year.")**

**else:**

**print("Not leap year.")**

# **Exercise 3 - Debugging FizzBuzz**

## **Instructions**

* Read this the code in main.py
* Spot the problems 🐞.
* Modify the code to fix the program.
* No shortcuts - don't copy-paste to replace the code entirely with a working solution.

The code needs to print the solution to the FizzBuzz game.

Your program should print each number from 1 to 100 in turn.

When the number is divisible by 3 then instead of printing the number it should print "Fizz".

When the number is divisible by 5, then instead of printing the number it should print "Buzz".

  And if the number is divisible by both 3 and 5 e.g. 15 then instead of the number it should print "FizzBuzz"

## **Hint**

There is more than one fix required.

**Test Your Code**

Check your code is doing what it is supposed to. When you're happy with your code, click submit to check your solution.

## **Solution**

<https://repl.it/@appbrewery/day-13-3-solution>

## **Code:**

**for number in range(1, 101):**

**if number % 3 == 0 or number % 5 == 0:**

**print("FizzBuzz")**

**if number % 3 == 0:**

**print("Fizz")**

**if number % 5 == 0:**

**print("Buzz")**

**else:**

**print([number])**