

1 BizzFuzz

- 1.1 Suppose you've been asked to test the following code snippet. Recall that a **leap year** is divisible by 4 except for 3 out of every 4 *centuries* where the year is not divisible by 400.

```
if (year % 400 != 0) {
    System.out.println(year + " is not a leap year");
} else if (year % 100 != 0) {
    System.out.println(year + " is a leap year");
} else if (year % 4 != 0) {
    System.out.println(year + " is not a leap year");
} else {
    System.out.println(year + " is a leap year");
}
```

- (a) Provide a method header (or, in Python, the *function definition*) for the code above.
- (b) Write a main method that tests the correctness of the code against a couple inputs that work as expected and a couple inputs that cause problems.

- (c) **Refactor** the program such that it functions correctly and can be more easily tested in the future.