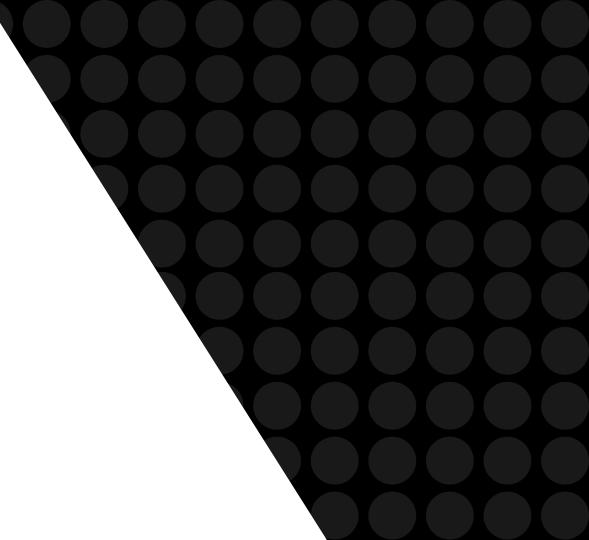
Looking Back

Midyear Review



Fizzbuzz

Write a program that gets a number as input, then prints 'fizz' if it is a multiple of 3, 'buzz' if it is a multiple of 5, and 'fizzbuzz' if it is a multiple of both 3 and 5. If it is not a multiple of either, just print out the number

Pseudo-code

What is it?

Pseudo = "fake"

Half english / half code explaining a program

Helps you think through the **structure** and **flow** of your code.

Abstracts from a specific language. (You can use java,python,c....)

Pseudo-code

Example - greeting the user

Psaudo-odele

```
//Ask for name
System.out.println("What is your name?");

//Get input
String name = kboard.getNextLine();

//Print greeting using name
System.out.println("Hi " + name);
```

```
public class FizzBuzz {
  public static void main(String[] args) {
     Write a program that gets a number as input,
     then prints 'fizz' if it is a multiple of 3,
      'buzz' if it is a multiple of 5, and
     'fizzbuzz' if it is a multiple of both 3 and
     5. If it is not a multiple of either, just
     print out the number
     */
```

```
import java.util.Scanner;
public class FizzBuzz {
  public static void main(String[] args) {
     //Prepare to get input
     Scanner scannerName = new Scanner(System.in);
     //Tell the user to enter a number
     System.out.println("Enter a number");
     //Get input and store it in a variable
     int inputName;
     inputName = scannerName.nextInt();
```

```
public static void main(String[] args) {
--> //Get a number as input
--> Scanner scannerName = new Scanner(System.in);
--> //Tell the user to enter a number
--> System.out.println("Enter a number");
--> //Store input in a variable
--> int inputName;
--> inputName = 9scannerName.nextInt();
--> System.out.println(inputName);
Enter a number > 9
```

```
--> inputName = Scanner.nextInt();
   //If inputName is divisible by 3,
    if (inputName % 3 == 0){
      //Print "fizz"
       System.out.println("fizz");
   //If inputName is divisible by 5,
    } else if (inputName % 5 == 0){
      //Print "buzz"
       System.out.println("buzz");
   //If inputName is divisible by both 3 and 5,
    } else if ((inputName % 3 == 0) && (inputName % 5 == 0)){
      //Print "fizzbuzz"
       System.out.println("fizzbuzz");
   //If it's not divisible by either,
    } else {
       //Print inputName
       System.out.println(inputNumber);
```

```
--> inputName = Scanner.nextInt();
   //If inputName is divisible by 3,
    if ((inputName % 3 == 0) && (inputName % 5 != 0)){
      //Print "fizz"
       System.out.println("fizz");
   //If inputName is divisible by 5,
    } else if ((inputName % 5 == 0) && (inputName % 3 != 0)){
      //Print "buzz"
       System.out.println("buzz");
   //If inputName is divisible by both 3 and 5,
    } else if ((inputName % 3 == 0) && (inputName % 5 == 0)){
      //Print "fizzbuzz"
       System.out.println("fizzbuzz");
   //If it's not divisible by either,
    } else {
       //Print inputName
       System.out.println(inputName);
```

Challenge Exercise 2

Play around with your fizzbuzz and see what it does for a bunch of different numbers.

Now make your program do fizzbuzz for every number 1 to 100

Hint: You have to use a while loop

Super Challenge Exercise 2 6

Hint: You have to use modulo (%)

Review:

- 12 % 3 = 0
- 12 % 5 = 2
- 12 % 10 = 2
- 12 % 6 = 0
- 12 % 7 = 5

Write a program that gets 2 numbers as input, then print out "true" if the two numbers have the same <u>ones digit</u>.

Print 'false' otherwise