

Week 2: Computer Science 1

Review of Week 1

- Why does a computer use the binary number system?
- What is the first step in converting a decimal number to binary?
- What were the two main components of the Hello World program?
- If my file is named `Main.java`, what should the class name be?
- In Java what is the syntax for calling the main method?
- Each statement in Java must end with what?
- How do you compile a Java program?
- How do you run a Java program?

- What is the difference between `print` and `println` ?
- If you are using `printf` , what does the `%C` format specifier do?
- Using `printf`, how do you print a floating point number with 2 decimal places?
- Using `printf` , how do you achieve the following output?

Recipe Measurements

```
-----  
flour      1.5 cups  
sugar     2.75 cups  
butter     1.0 cups
```

Notes: The first column is left justified. The second column is right justified. There are 6 spaces between flour and cups.

Solution:

```
System.out.println("Recipe Measurements");  
System.out.println("-----");  
System.out.printf("%-5s%9.1f%5s\n", "flour", 1.5, "cups");  
System.out.printf("%-5s%9.2f%5s\n", "sugar", 2.75, "cups");  
System.out.printf("%-6s%8.2f%5s\n", "butter", 1.0, "cups");
```