

<b>Course Number</b>	<i>CSci 120</i>
<b>Descriptive Title</b>	<i>Object-oriented Programming</i>
<b>Programming Language</b>	<i>Java</i>

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<b>Problem Set Number</b>	<i>4</i>
<b>Problem Number</b>	<i>1</i>
<b>Activity Title</b>	<i>Use Loops and Branching Statements</i>

**Objective**

In this exercise you will use a simple loop and branching statements to play a fictitious game of “foo bar baz”.

**Directions**

Create an application that loops from 1 to 50 and prints out each value on a separate line, except print out "foo" for every multiple of 3, "bar" for every multiple of 5, and "baz" for every multiple of 7.

For example:

```
1
2
3 foo
4
5 bar
6 foo
7 baz
8
9 foo
10 bar
11
12 foo
13
14 baz
15 foo bar
16
```

etc...

1. Create a Java class called `FooBarBaz` with a single `main` method. In this method create a `for` loop statement with an iteration variable called `number`.
2. Within the `for` loop, print out the `number` using the `System.out.print` method. This method, unlike its `println` cousin, does not print a newline character.
3. Within the `for` loop, use an `if` statement to determine whether or not a "foo" should be printed for this number. If yes, then use the `print` method to print the string "foo". Do the same thing for the "bar" and "baz" cases.  
**Hint:** The `%` operator calculates an integer remainder.
4. Finally, also within the `for` loop, print a newline character using the `System.out.println()` method. This will close the line for this iteration.