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Pair?

```
1 //Code by Akshat Garg
2 public class Song
3 {
4     // Add a public static variable called numVerses
5     public static int numVerses = 0;
6     // Change the method(s) to be static
7
8     public static void verse(String line1, String num){
9         System.out.println("The ants go marching " + num + " by " + num + ", hurrah, hurrah
10        System.out.println("The ants go marching " + num + " by " + num + ", hurrah, hurrah
11        System.out.println("The ants go marching " + num + " by " + num);
12        System.out.println("The little one stops to " + line1);
13        System.out.println("And they all go marching down to the ground");
14        System.out.println("To get out of the rain, BOOM! BOOM! BOOM! BOOM!");
15    }
16    public static void main(String args[])
17    {
18        Song theAntsGoMarching = new Song();
19        Song.verse("suck a thumb","one");
20        numVerses++;
21        Song.verse("tie a shoe","two");
22        numVerses++;
23        Song.verse("climb a tree","three");
24        numVerses++;
25        System.out.println(numVerses);
26        // Create a Song object and call its method(s) to print out
27        // the verses of The Ants Go Marching
28        // There should be atleast 1 method called verse that takes 2 arguments.
29
30    }
31 }
32
```

The ants go marching one by one, hurrah, hurrah
The ants go marching one by one, hurrah, hurrah
The ants go marching one by one
The little one stops to suck a thumb
And they all go marching down to the ground
To get out of the rain, BOOM! BOOM! BOOM! BOOM!
The ants go marching two by two, hurrah, hurrah
The ants go marching two by two, hurrah, hurrah
The ants go marching two by two
The little one stops to tie a shoe
And they all go marching down to the ground
To get out of the rain, BOOM! BOOM! BOOM! BOOM!
The ants go marching three by three, hurrah, hurrah
The ants go marching three by three, hurrah, hurrah
The ants go marching three by three
The little one stops to climb a tree
And they all go marching down to the ground
To get out of the rain, BOOM! BOOM! BOOM! BOOM!
3

Result	Expected	Actual	Notes
Pass	true	true	Checking that code contains verse(...) method header with two String parameters
Pass	3	3	Checking that code contains three calls to verse(...) method using ClassName.staticMethod(...) syntax
Pass	1	1	Checking that code declares variable numVerses according to instructions and sets it to zero
Pass	increments: true prints: true	increments: true prints: true	Checking that code increments and prints numVerses
Pass	No errors	No errors	Checking output from main

You got 5 out of 5 correct. 100.00%

Activity: 5.7.1.1 ActiveCode (challenge-5-7-static-song)

Debug the following program that has scope violations. You may need to add methods or use methods that are in the class Fraction appropriately. Then, add comments that label the variable declarations as class, method, or block scope.

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```
1 //Code by Akshat Garg
2 public class TesterClass
3 {
4     public static void main(String[] args)
5     {
6         Fraction f1 = new Fraction();
7         Fraction f2 = new Fraction(1, 2);
8         System.out.println(f1);
9         System.out.println(f2.toString());
10    }
11 }
12
13 /** Class Fraction */
14 class Fraction
15 {
16     // instance variables
17     private int numerator;
18     private int denominator;
19     int d = 1;
20     // constructor: set instance variables to default values
21     public Fraction()
22     {
23         numerator = d;
24         denominator = d;
25     }
26     // constructor: set instance variables to init parameters
27     public Fraction(int initNumerator, int initDenominator)
28     {
29         numerator = initNumerator;
30         denominator = initDenominator;
31     }
32     public int getNumerator()
33     {
34         return numerator;
35     }
36     public int getDenominator()
37     {
38         return denominator;
39     }
40     public String toString()
41     {
42         // if the denominator is 1, then just return the numerator
```

1

1/2

Result	Expected	Actual	Notes
Pass	true	true	Checking that code has been changed
Pass	1 1/2	1 1/2	Testing main()
Pass	2 private vars	2 private vars	Keep the instance variables private! Use other Fraction methods.

You got 3 out of 3 correct. 100.00%

Activity: 5.8.1.1 ActiveCode (challenge-5-8-Debug)

Fun activity to debug all the issues in the code. First activity was a bit confusing but I figured it out using the test results