# Computer Science CSC 324S
# Quiz 1 solution%

```
// Chameleon: Has two fields, 'size'
// and 'colour'.  Also has a method to
// print itself, and a method to
// camouflage with another Chameleon,
// which set colour, but not size, to
// the other Chameleon's colour.
class Chameleon {
    public int size;
    public String colour;

    // Print my size and my colour.
    public void print() {
        System.out.println("Size: " +
          size + "  Colour: " + colour);
    }

    // All c2's colour to the end of
    // mine.
    public void camouflage(Chameleon c2) {
        colour = colour + c2.colour;
    }
} // End clas Chameleon

// Quiz1: The class containing the
// main() method, which manipulates
// Chameleons.
class Quiz1 {

    // main: this is where execution starts.
    public static void main(String[] pars) {

        Chameleon c1;
        c1 = new Chameleon();
        c1.size = 7;
        c1.colour = "Plaid";

        Chameleon c2;
        c2.size = 14;  <-- error:
        c2 = c1;             c2 does not refer
        c2.size = 16;        to an object.
        c1.print();
        c2.print();

        c2 = new Chameleon();
        c2.size = 4;
        c2.colour = "Persimmon";

        c1.camouflage(c2);
        c1.print();
        c2.print();
    }
}
```

**A Note on Strings:** `''+''` concatenates two strings. So The following code:

```
String s;
s = "Fred";
System.out.println( s );
s = s + "Wilma";
System.out.println( s );
System.out.println( s +
    " eat garlic." );
```

prints

```
Fred
FredWilma
FredWilma eat garlic.
```

**Consider the code in the left column.**

**1.** Cross out the only line of code that causes an error.

**2.** From the following choices circle the correct output of the code, assuming that the line you crossed out doesn't exist.

Choice 1: `<-- Correct answer.`

```
Size: 16  Colour: Plaid
Size: 16  Colour: Plaid
Size: 16  Colour: PlaidPersimmon
Size: 4  Colour: Persimmon
```

Choice 2:

```
Size: 7  Colour: Plaid
Size: 14  Colour: PlaidPersimmon
Size: 16  Colour: Plaid
Size: 4  Colour: Persimmon
```

Choice 3:

```
Size: 7  Colour: Plaid
Size: 16  Colour: Plaid
Size: 16  Colour: PlaidPersimmon
Size: 4  Colour: Persimmon
```

Choice 4:

```
Size: 16  Colour: Plaid
Size: 14  Colour: Plaid
Size: 16  Colour: PlaidPersimmon
Size: 4  Colour: Persimmon
```