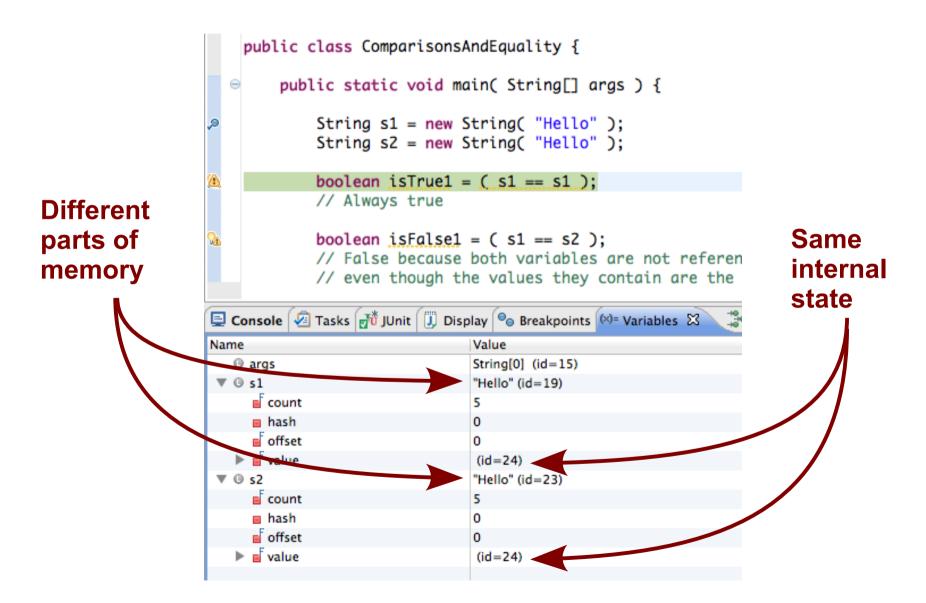
## Question from first lecture

In the example called ComparisonAndEquality, the first assignment of String variables s1 and s2 results in the allocation of two different memory locations for the variables and two identical memory locations for their internal state, an optimization.

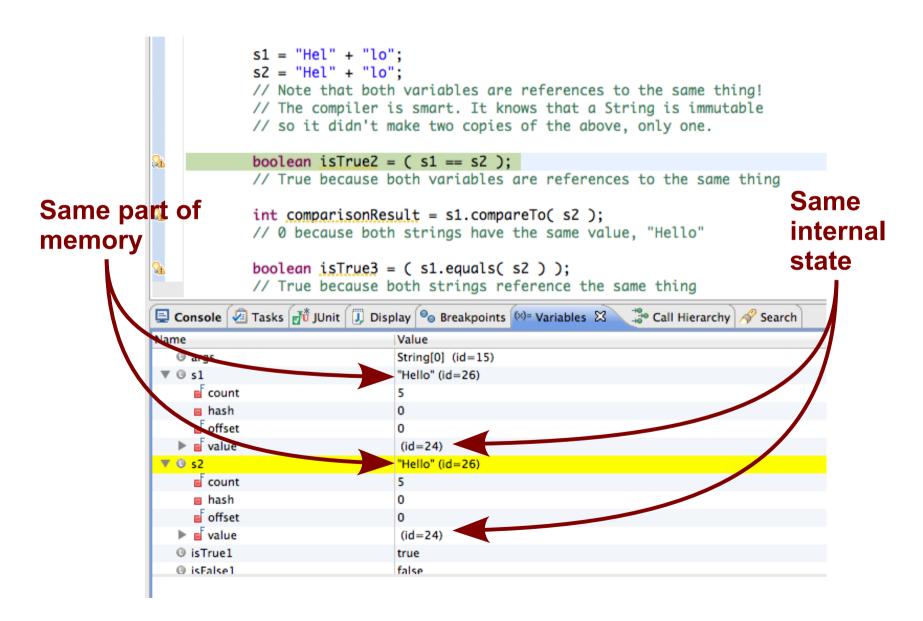
However, in the second assignment of String variables s1 and s2, both the memory locations for the variables and their internal states are the same, an even more significant optimization.

If Java could do that in the second case, why didn't it do it in the first case?

## String allocation with 'new'



## Strings assigned to constants



## Imagine the following method

```
public SomeData getData( String name ) {
    for( SomeData data : _dataList ) {
        If( data.getName() == name )
            return data;
        }
        return null;
    }
}
```

We are using the identity of the string to find data in a list. We don't care whether the values are the same. There could be many "John Smith" entries.