

# Memory Models



Support Video



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# By the end of this video you will be able to...

- Write **testing code** to verify output of Java code
- Use **Eclipse** to test simple Java code



```
int var1 = 17;  
int var2 = var1 + 1;  
var1 = var2 + 1;  
System.out.println("var1: " + var1 + " var2: " + var2);
```

```
int var1 = 17;  
int var2 = var1 + 1;  
var1 = var2 + 1;  
System.out.println("var1: " + var1 + ", var2: " + var2);
```

## Memory models

**Expect:** var1: 19, var2: 18



# How do we test?

```
public class IntAssignmentTester
{
    public static void main(String[] args)
    {
        int var1 = 17;
        int var2 = var1 + 1;
        var1 = var2 + 1;
        System.out.println("var1: " + var1 + " var2: " + var2);
    }
}
```

In file `IntAssignmentTester.java`

# In Eclipse

Run button

Code

```
IntAssignmentTester.java
1 public class IntAssignmentTester {
2     public static void main (String[] args) {
3         int var1 = 17;
4         int var2 = var1 + 1;
5         var1 = var2 + 1;
6         System.out.println("var1: " + var1 + " var2: " + var2);
7     }
8
9
```

Output

<terminated> IntAssignmentTester [Java Application] /Library/Java/JavaVirtualMachines/jdk1.7.0\_51.jdk/Contents/Home/bin/java (Jul 5, 2015, 5:44:56 PM)  
var1: 19 var2: 18