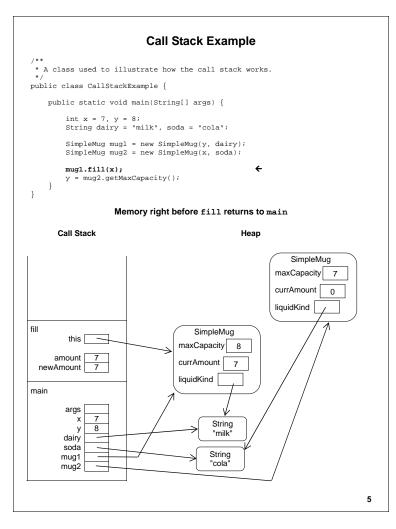
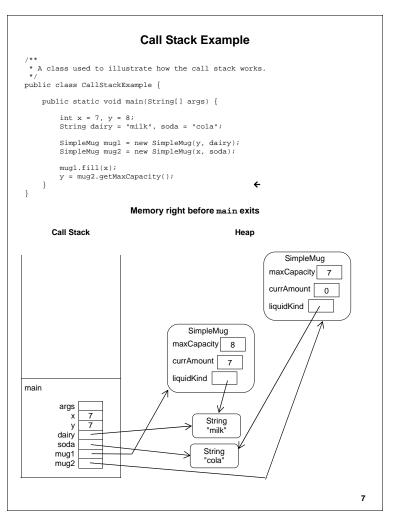


3

```
Call Stack Example
 \mbox{\scriptsize \star} A class used to illustrate how the call stack works.
public class CallStackExample {
    public static void main(String[] args) {
         int x = 7, y = 8;
String dairy = "milk", soda = "cola";
         SimpleMug mug1 = new SimpleMug(y, dairy);
SimpleMug mug2 = new SimpleMug(x, soda);
         mugl.fill(x);
         y = mug2.getMaxCapacity();
            Memory right before SimpleMug constructor returns to main
       Call Stack
                                                        Heap
                                                                     SimpleMug
                                                                 maxCapacity
                                                                                7
                                                                 currAmount
                                                                               0
                                                                 liquidKind
SimpleMug constructor
                                           SimpleMug
          this ____
                                       maxCapacity
                                                      8
mugCapacity
                                       currAmount
                                                      0
   kindLiquid
                                       liquidKind
         args
                                                String
                8
                                                 "milk
        dairy
        soda
        mug1
                                                "cola
        mug2
```





Call Stack Example * A class used to illustrate how the call stack works. public class CallStackExample { public static void main(String[] args) { int x = 7, y = 8; String dairy = "milk", soda = "cola"; SimpleMug mug1 = new SimpleMug(y, dairy); SimpleMug mug2 = new SimpleMug(x, soda); mugl.fill(x); y = mug2.getMaxCapacity(); (Memory right before getMaxCapacity returns to main Call Stack Heap SimpleMug maxCapacity 7 currAmount 0 liquidKind SimpleMug maxCapacity 8 getMaxCapacity currAmount 7 liquidKind main args String 8 "milk dairy soda String mug1 "cola mug2 6