Concurrency

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1 State-transition diagrams

```
public static void main(String[] args) {
  Printer one = new Printer("1");
  one.run();
}
```
Draw the state-transition diagram.

```
public static void main(String[] args) {
  Printer one = new Printer("1");
  Printer two = new Printer("2");
  one.start();
  two.start();
}
```
Draw the state-transition diagram.

2   Counter

Implement the class **Counter** with attribute **value**, initialized to zero, and the methods **increment** and **decrement**.

```
public class Counter {




}
```

3 Resource

Implement the class **Resource** with attribute **available**, initialized to true, and the methods **acquire** and **release**.

```
public class Resource {




}
```