

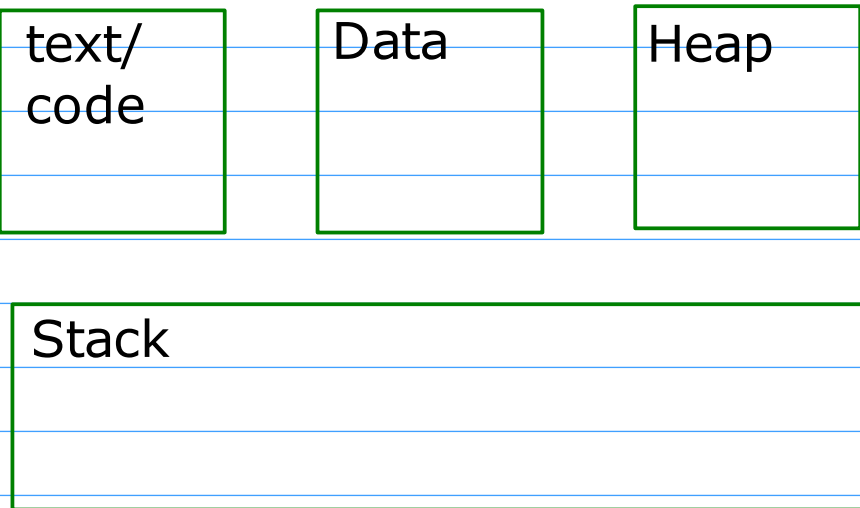
MultiThreading

Thread

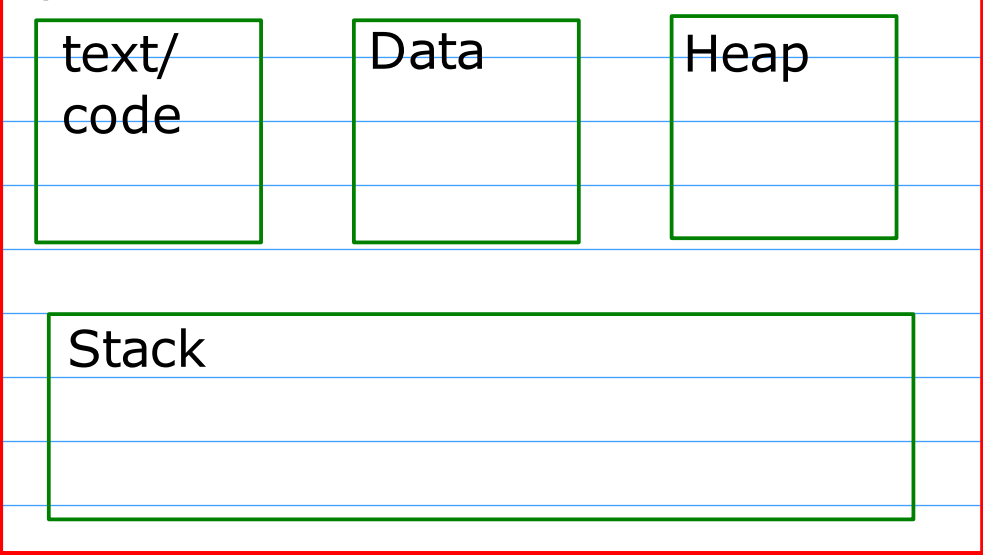
Process

PCB
PID

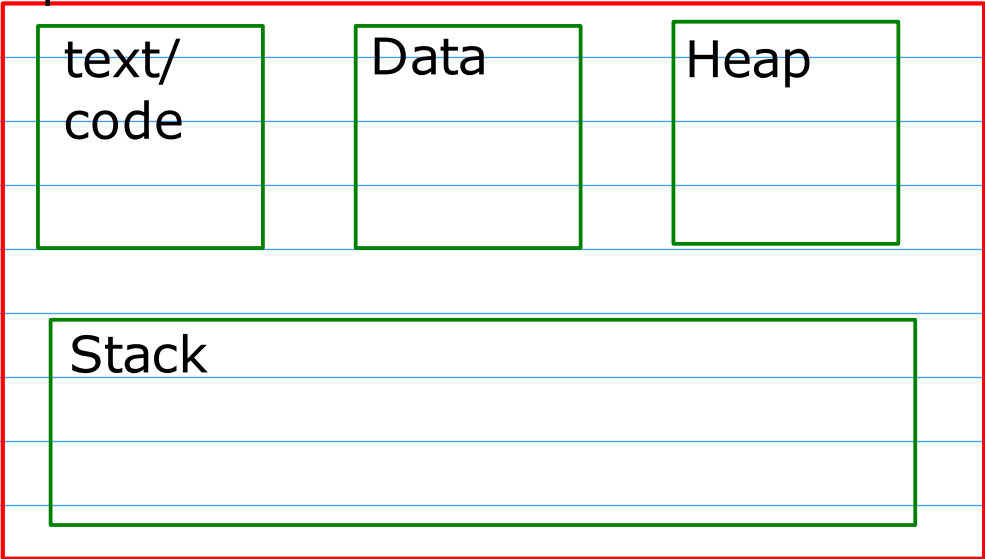
p1



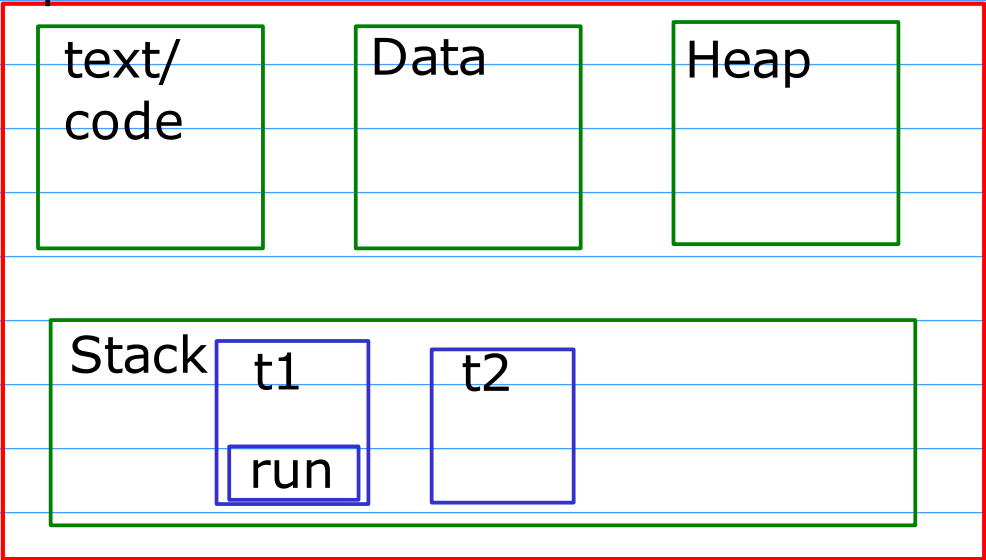
p2



p3



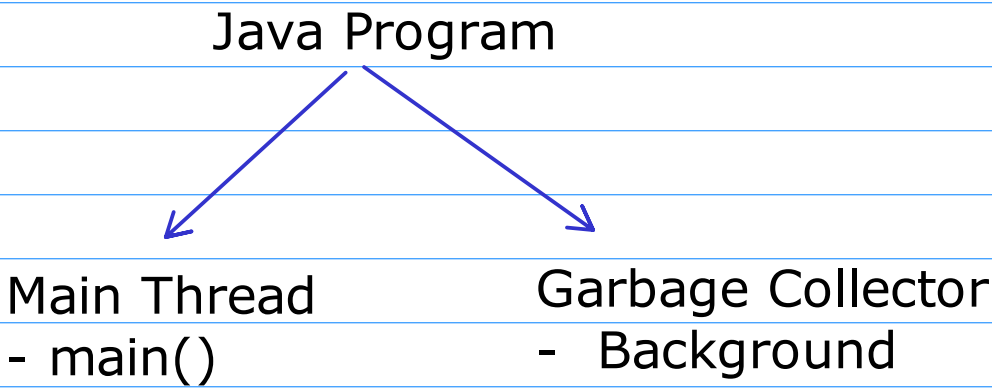
p4



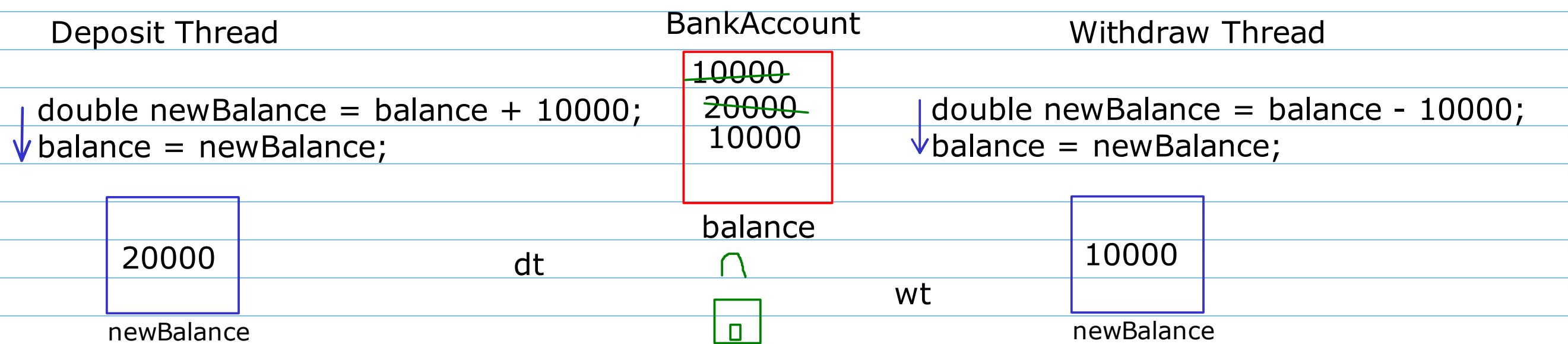
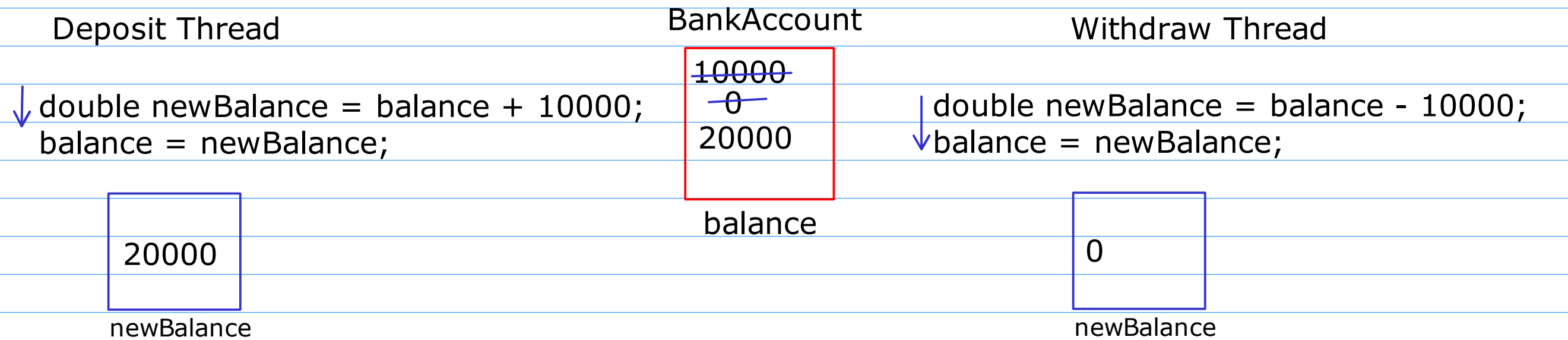
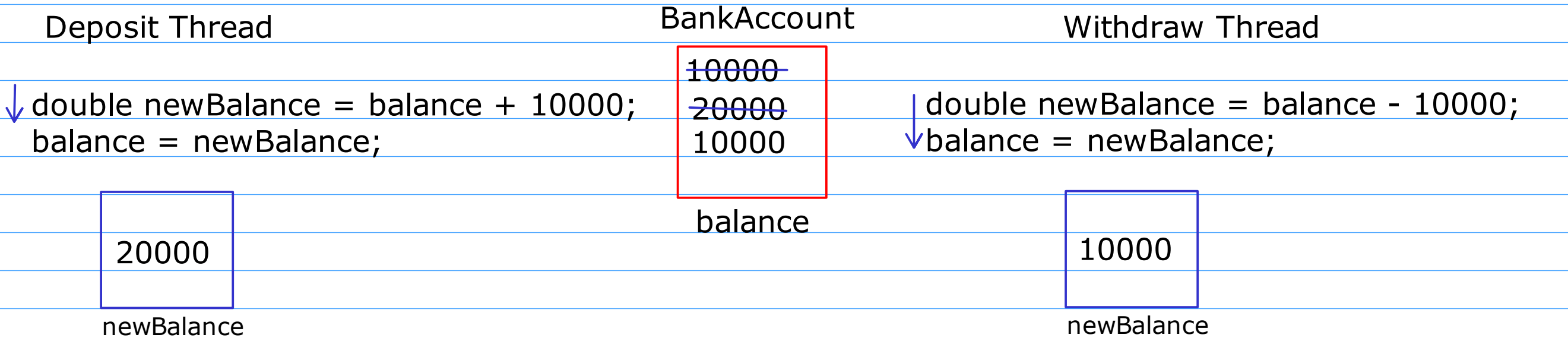
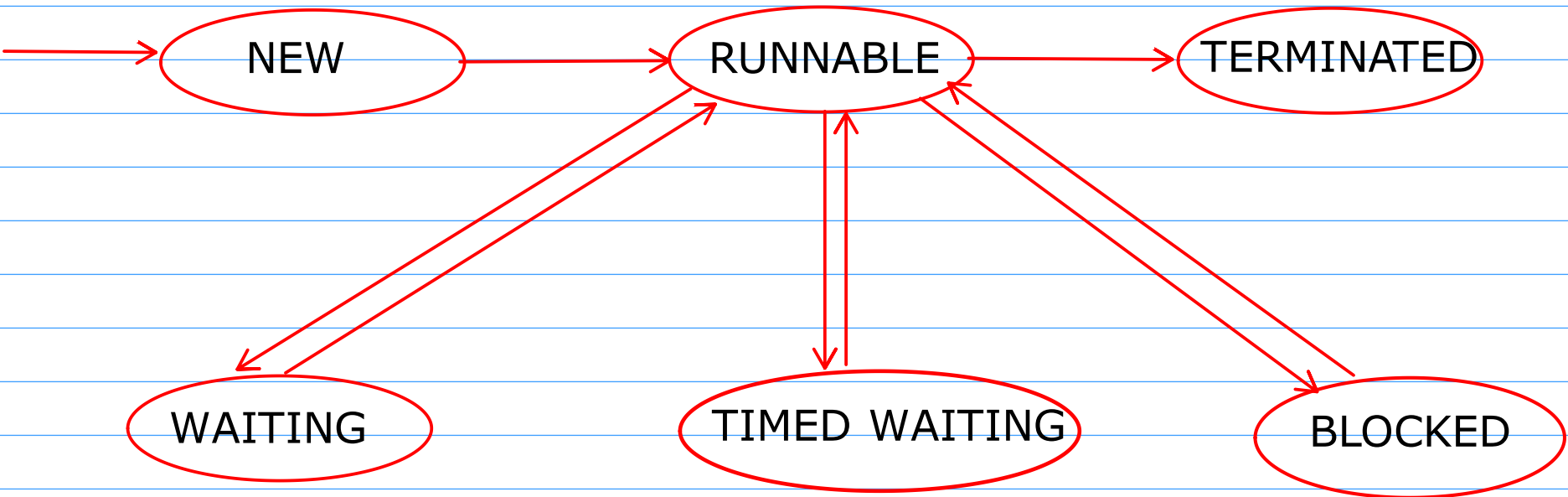
Thread - Light Weight Process

TCB

MultiThreading



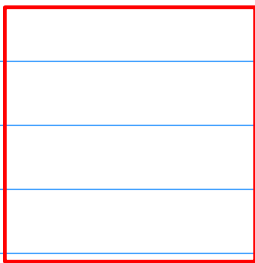
LifeCycle of Thread



Sunbeam Thread

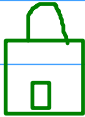
```
synchronized(obj){ // lock
for (int i = 0; i < s.length(); i++) {
    System.out.print(s.charAt(i));
    delay();
}
obj.notify();
} // unlock
```

monitor



obj

st



it

Infotech Thread

```
synchronized(obj){ // lock
obj.wait(); // unlock
for (int i = 0; i < s.length(); i++) {
    System.out.print(s.charAt(i));
    delay();
}
} // unlock
```

PuneKarad Thread

Reflection

- metadata of the class

Program.class
Employee.class
String.class

```
Class c1= Program.class;
Class c2;
Class c3;
```