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1 -----TestDeadLock.java-----
2 package com.ameya.test;
3
4 public class TestDeadLock {
5
6     private class A{
7         private int i=10;
8         public int getI() {
9             return i;
10        }
11        public void setI(int i) {
12            this.i = i;
13        }
14    }
15    private class B{
16        private int i=10;
17        public int getI() {
18            return i;
19        }
20        public void setI(int i) {
21            this.i = i;
22        }
23    }
24    public static void main(String[] args) {
25        TestDeadLock test=new TestDeadLock();
26        final A a=test.new A();
27        final B b=test.new B();
28
29        Runnable thread1=new Runnable() {
30            public void run() {
31                while(true) {
32                    synchronized(a)
33                    {
34                        try {
35                            Thread.sleep(200);
36                        }catch(InterruptedException e) {
37                            e.printStackTrace();
38                        }
39                        synchronized (b) {
40                            System.out.println("In Thread thread1");
41                        }

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42         }
43     }
44 }
45 };
46 Runnable thread2=new Runnable() {
47     public void run() {
48         while(true) {
49             synchronized(a)
50             {
51                 try {
52                     Thread.sleep(200);
53                 }catch(InterruptedException e) {
54                     e.printStackTrace();
55                 }
56                 synchronized (b) {
57                     System.out.println("In Thread thread2");
58                 }
59             }
60         }
61     }
62 };
63 new Thread(thread1).start();
64 new Thread(thread2).start();
65 }
66
67 }
68
```