

CaS 10

Deadlock

class A {

synchronized void foo(S b) {

String name = Thread.currentThread().getName();

System.out.println(name + " entered A.foo");

try {

Thread.sleep(1000)

} catch (Exception e) {

System.out.println("A interrupted")

}

System.out.println(name + " trying to call  
b.last()");

b.last();

}

void last() {

System.out.println(~~name~~ + " inside A.last")

}

}

class B {

synchronized void bar(A a) {

String name = Thread.currentThread().getName();

System.out.println(name + " entered B.bar");

try {

Thread.sleep(1000);

} catch (Exception e) {

System.out.println(name +

"trying to call a.last()")

a.last();

}

void last() {



System.out.println("Inside A last");

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class Deadlock implements Runnable

{

A a = new A();

B b = new B();

Deadlock();

Thread.currentThread().setName("Main Thread");

Thread t = new Thread(this, "Running Thread");

t.start();

a.foo(b);

System.out.println("back in main thread");

public void run() {

b.bar(a);

System.out.println("back in other thread");

}

public static void main (String args[]) {

new Deadlock();

}

}



→ Main Thread enters A.foo  
Racing Thread enters B.bar  
Main Thread trying to call B.start()  
Inside A.start  
Racing Thread trying to call A.start()  
Inside A.start  
Back in other thread  
Back in main thread

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