

Demonstrate inter process communication & deadlock.

```
class A {
    synchronized void foo (B b)
    {
        String name = Thread.currentThread().getName();
        S.o.p (name + " entered A.foo");
```

```
try {
    Thread.sleep (1000);
} catch (Exception e)
{
    S.o.p ("A Interrupted");
    S.o.p (name + " trying to call B.last()");
    b.last();
}

void last()
{
    S.o.p ("Inside A.last()");
}
```

```
class B
{
    synchronized void bar (A a)
    {
        String name = Thread.currentThread().getName();
        S.o.p (name + " entered B.bar");
    }
}
```

```
Thread.sleep(1000);
```

```
catch (Exception e)
```

```
{ sop("B Interrupted");
```

```
sop(name + " trying to call A.last()");
```

```
a.last();
```

```
void last() {
```

```
sop("Inside B.last()");
```

```
class Deadlock implements Runnable {
```

```
A a = new A();
```

```
B b = new B();
```

```
Deadlock() {
```

```
Thread.currentThread().setName("MainThread");
```

```
Thread t = new Thread(this, "Racing Thread");
```

```
t.start();
```

```
a.foo(b);
```

```
sop("Back in main thread");
```

```
public void run() {
```

```
b.bar(a);
```

```
sop("Back in other thread");
```

```
public static void main (String args[]) {
```

```
sop("Name: Akulsha GP, VSN: IBM23C8008");
```

```
new Deadlock();
```


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RainingThread entered B.bar
MainThread Entered A.foo

RainingThread trying to call A.bar()
MainThread trying to call B.bar()
Inside A.bar
Inside B.bar

Back in main thread.
~~Back in other thread,~~

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