

13/02/21

class A

```
{
    synchronized void foo(B 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("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 (Ex

{

System.o

}

System.o

a.last

}

}

void ca

{

System

}

}

class

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B b

Bar

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}


```
catch (Exception e)
```

```
{
    System.out.println ("B interrupted");
}
System.out.println (name + " trying to call A.last()");
a.last();
}
void out()
{
    System.out.println ("Inside A.last()");
}
}
```

```
class Readlock implements Runnable
```

```
{
    A a = new A();
    B b = new B();
    Readlock()
    {
        Thread.currentThread().setName ("Main Thread");
        Thread t = new Thread (this, "Racing Thread");
        t.start();
        a.foo(h);
        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 Readlock();
    }
}
```


Output

main thread entered A. foo
 Racing thread entered B. bar
 main thread trying to call B. bar()
 Inside A last
 Back in main thread
 Racing thread trying to call A. last()
 Inside A. last
 Back in other thread

~~13.02.21~~

A. foo = 10
 B. bar = 20
 B. bar()

Thread entered thread (A. foo) = 10
 Thread entered thread (B. bar) = 20

Thread entered thread (B. bar) = 20
 Thread entered thread (A. foo) = 10

Thread entered thread (A. foo) = 10
 Thread entered thread (B. bar) = 20

Thread entered thread (B. bar) = 20
 Thread entered thread (A. foo) = 10

Thread entered thread (A. foo) = 10
 Thread entered thread (B. bar) = 20

Thread entered thread (B. bar) = 20
 Thread entered thread (A. foo) = 10