







## Example

```
Class A{
   synchronized void f(){this.g();}
   synchronized void g(){...};
}
...
A a; a.f();
// The a-lock will be acquired
  twice and released twice.
```

5



## Threads and locks

- A notify invocation on an object results in the following:
  - If one exists, an arbitrarily chosen thread, say T, is removed by the Java runtime system from the internal wait queue associated with the target object.
  - T must re-obtain the synchronization lock for the target object which will always cause it to block at least until the thread calling notify releases the lock.
  - T is then resumed at the point of its wait.

Java threads and locks

7