
Thread A:**Thread B:**

Solution 1:

```
1 | statement a1
2 | sem1.wait()
3 | sem2.signal()
4 | statement a2
```

```
1 | statement b1
2 | sem1.signal()
3 | sem2.wait()
4 | statement b2
```

Solution 2:

```
1 | statement a1
2 | sem2.signal()
3 | sem1.wait()
4 | statement a2
```

```
1 | statement b1
2 | sem1.signal()
3 | sem2.wait()
4 | statement b2
```

Solution 3:

```
1 | statement a1
2 | sem2.wait()
3 | sem1.signal()
4 | statement a2
```

```
1 | statement b1
2 | sem1.wait()
3 | sem2.signal()
4 | statement b2
```

Deadlock!