

## Resources

```
typedef int semaphore;
```

```
    semaphore resource_1;
```

```
    semaphore resource_2;
```

```
void process_A(void) {  
    down(&resource_1);  
    down(&resource_2);  
    use_both_resources( );  
    up(&resource_2);  
    up(&resource_1);  
}
```

```
void process_B(void) {  
    down(&resource_1);  
    down(&resource_2);  
    use_both_resources( );  
    up(&resource_2);  
    up(&resource_1);  
}
```

```
semaphore resource_1;
```

```
semaphore resource_2;
```

```
void process_A(void) {  
    down(&resource_1);  
    down(&resource_2);  
    use_both_resources( );  
    up(&resource_2);  
    up(&resource_1);  
}
```

```
void process_B(void) {  
    down(&resource_2);  
    down(&resource_1);  
    use_both_resources( );  
    up(&resource_1);  
    up(&resource_2);  
}
```