

- A locking mechanism
- An integer or ADT

Atomic Operations	
P()	V()
Wait()	Signal()
Down()	Up()
Decrement()	<pre>Increment()</pre>

```
down(S){
    while(S<=0);
    S--;
}</pre>
```

More meaningful names:

- increment_and_wake_a_waiting_process_if_any()
- decrement_and_block_if_the_result_is_negative()