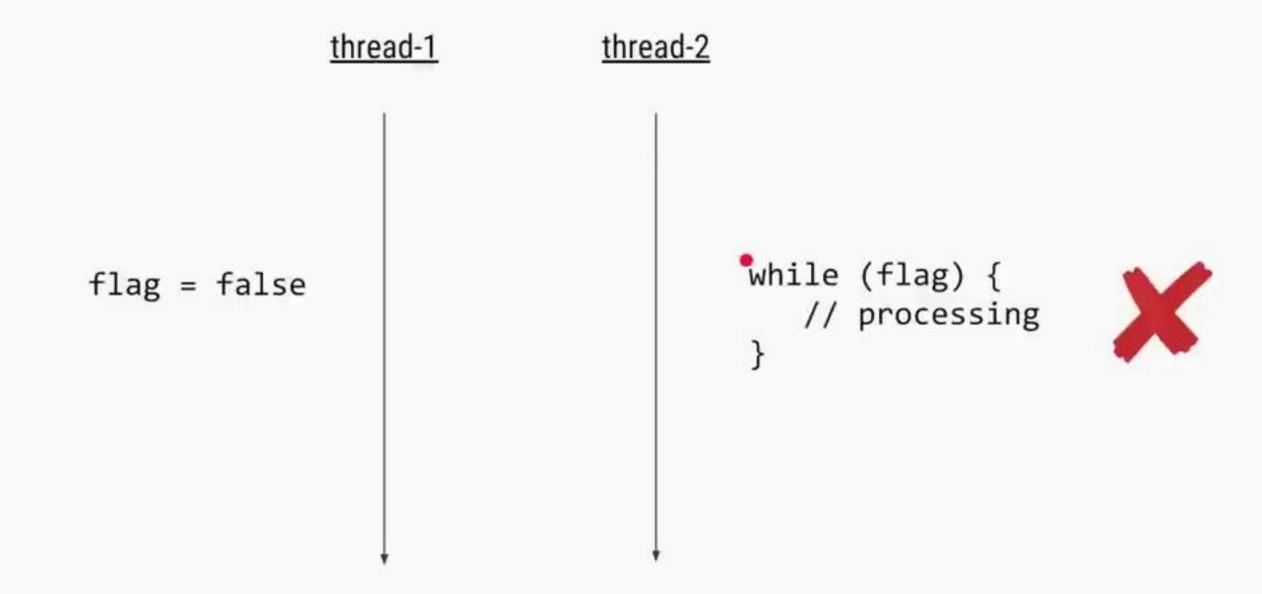
# volatile or Atomic that is the question



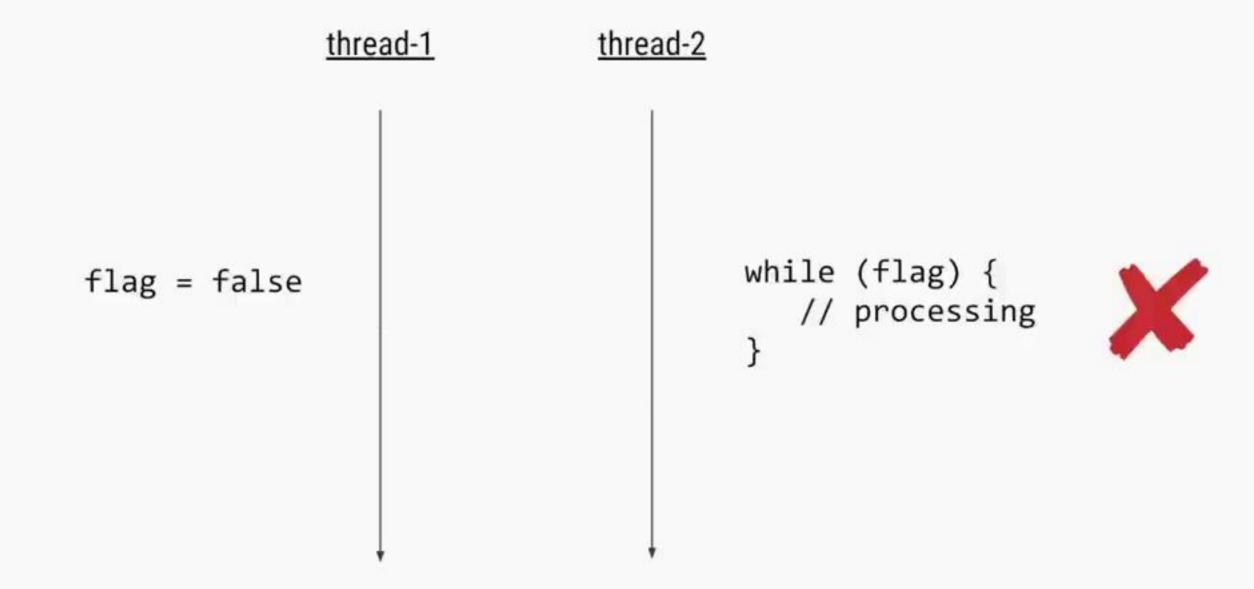
# volatile or Atomic that is the question



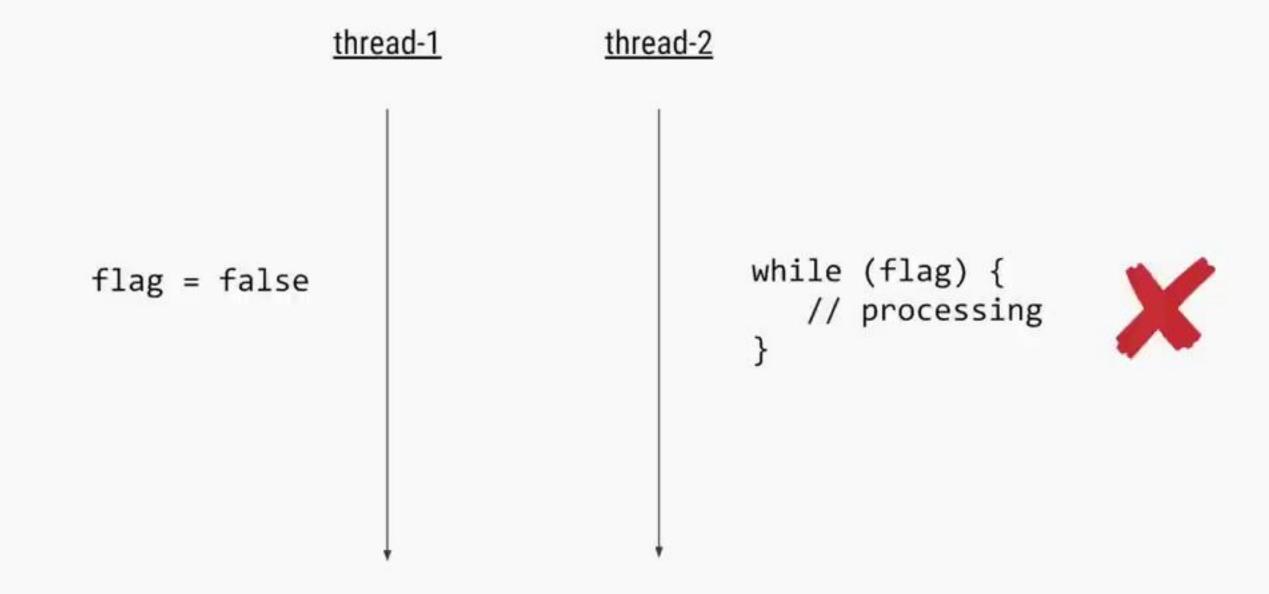
boolean flag = true

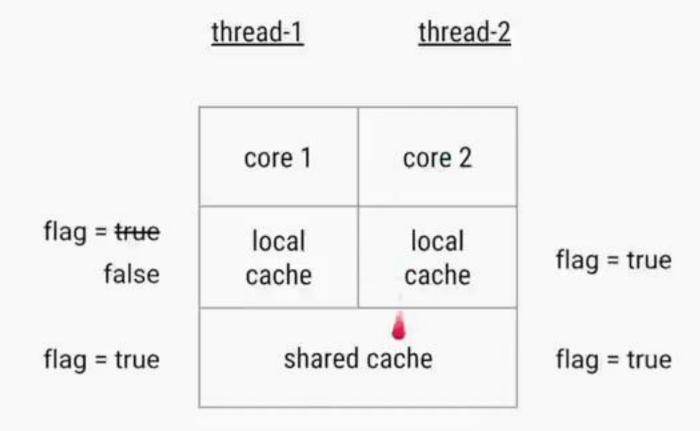


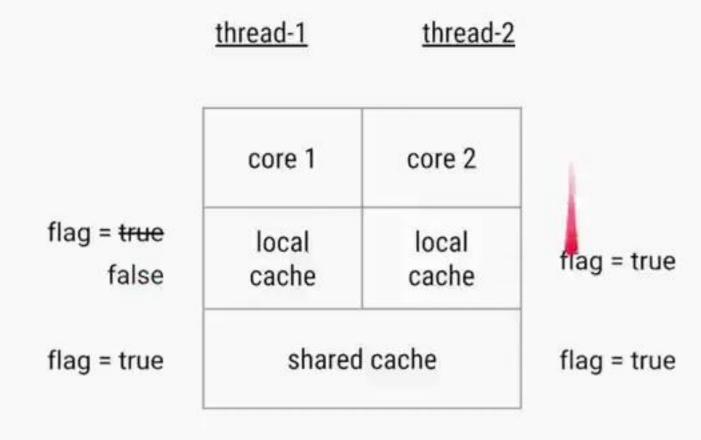
boolean flag = true



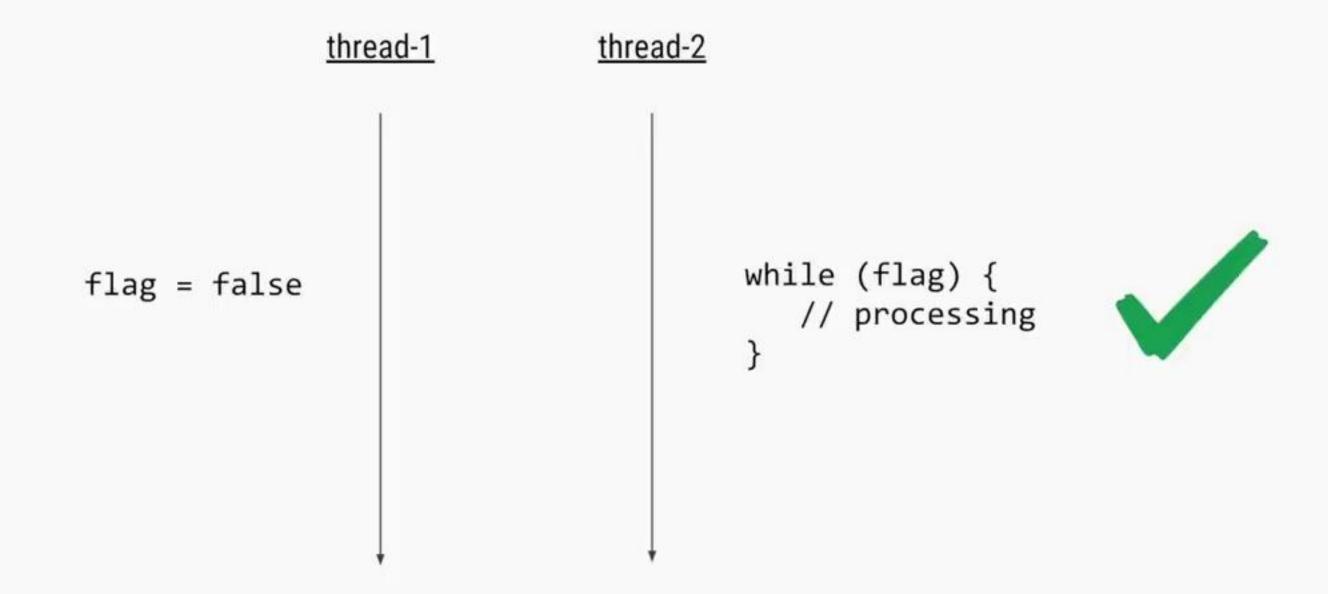
boolean flag = true



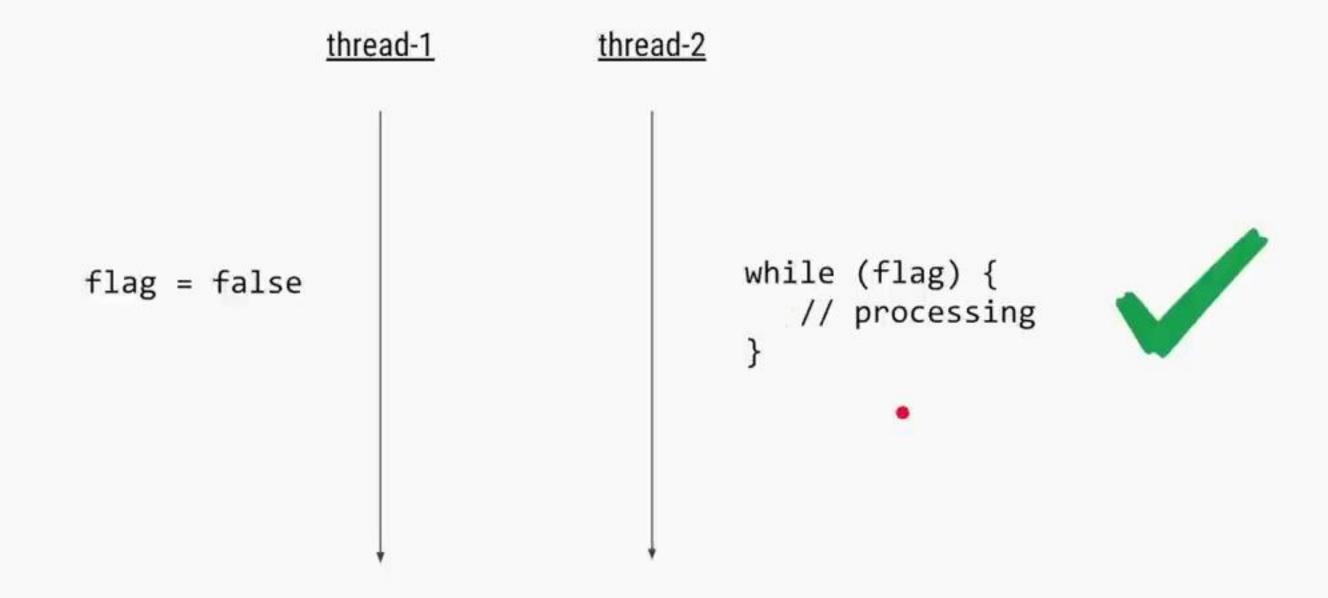


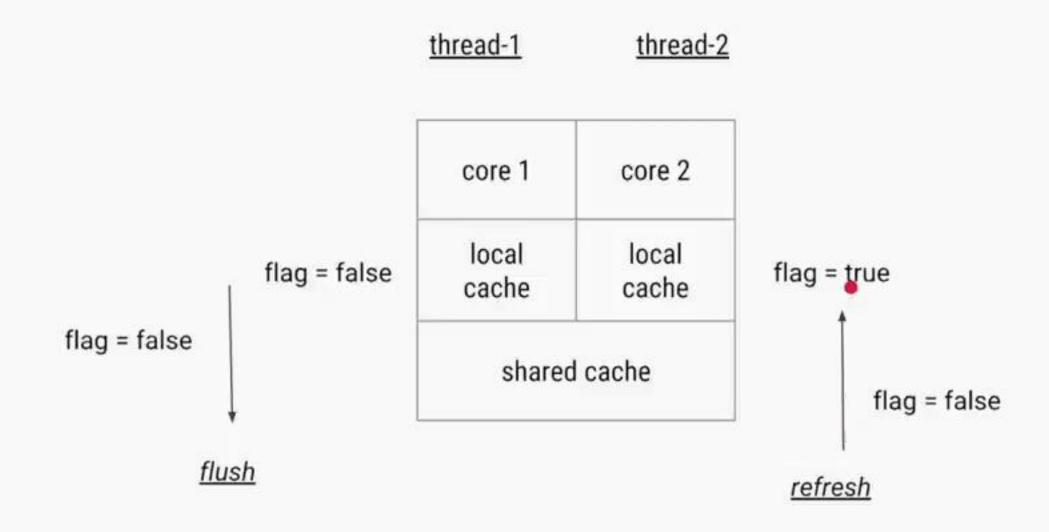


volatile boolean flag = true

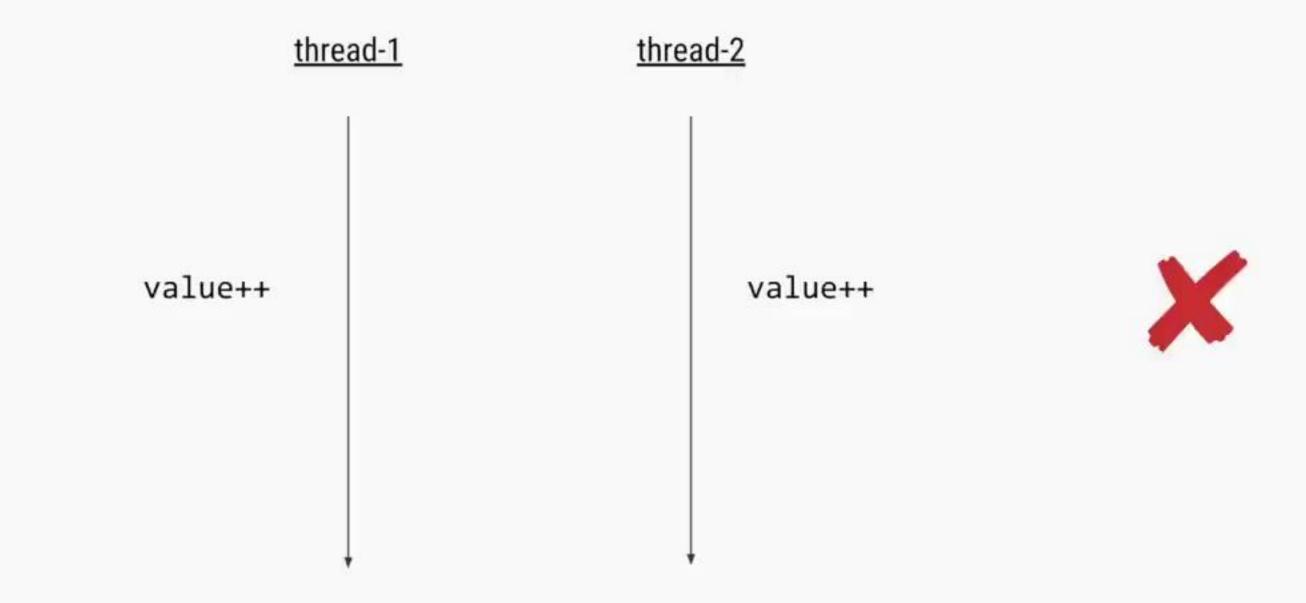


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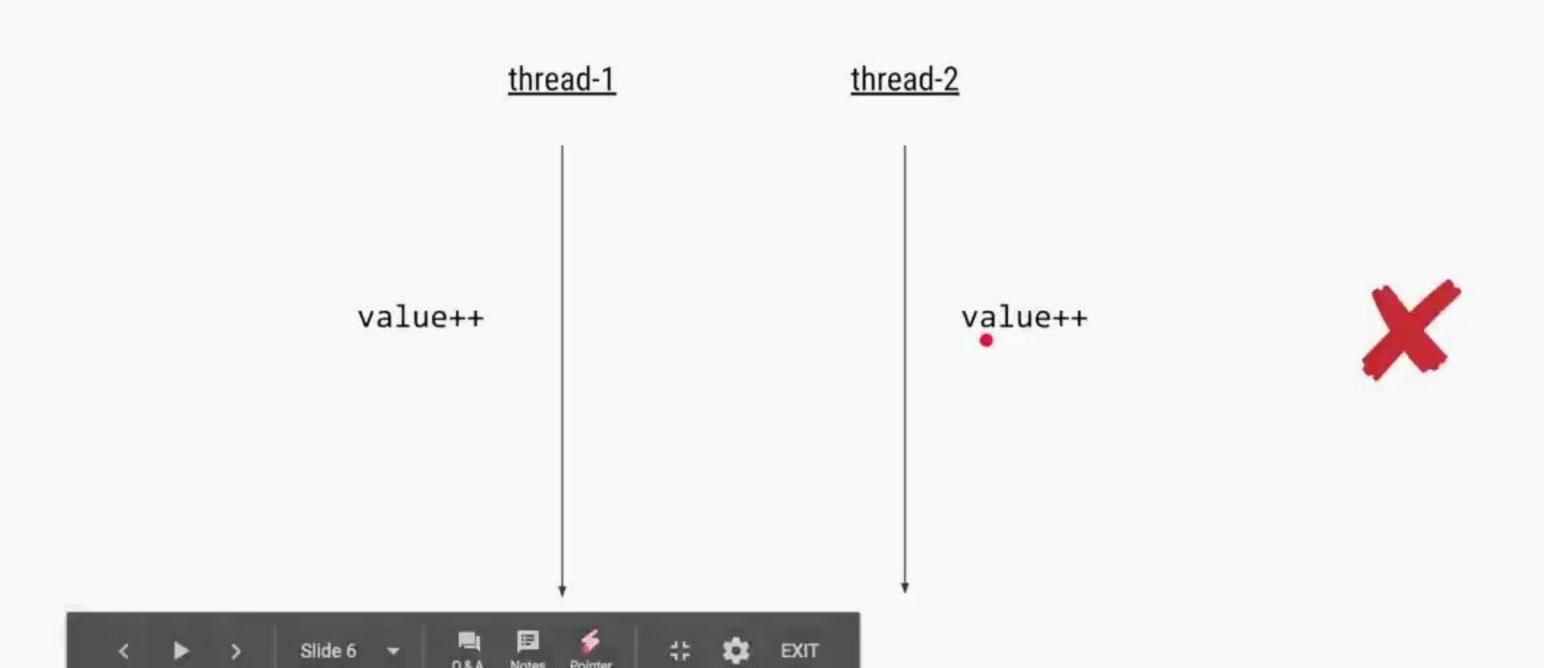




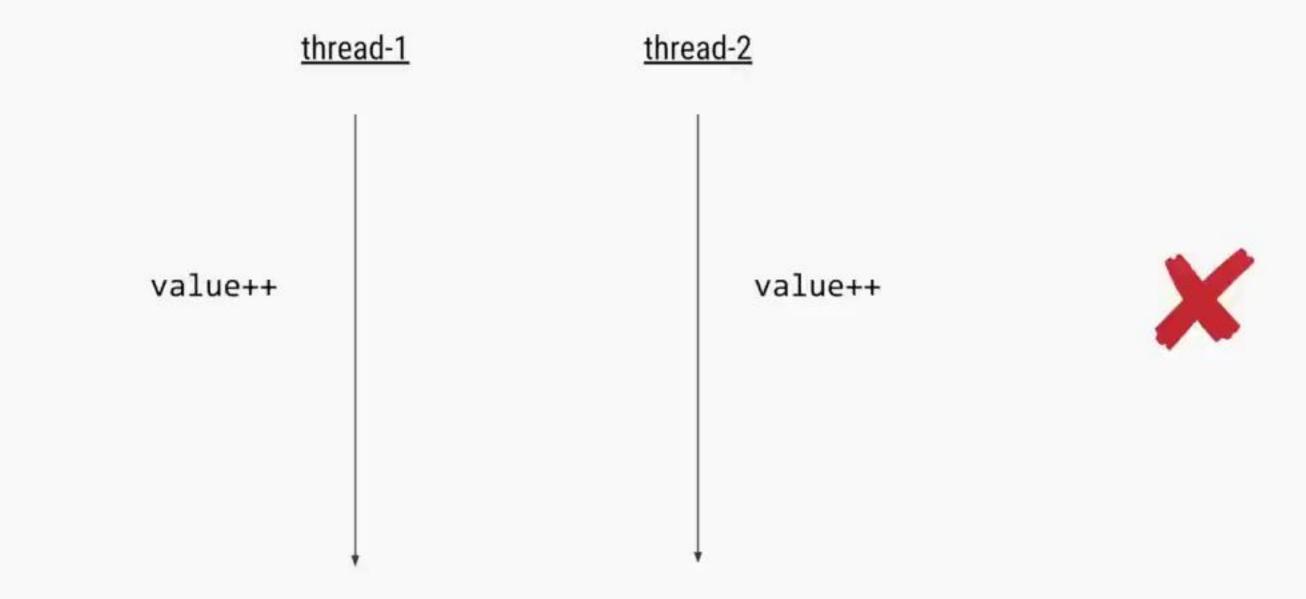
int value = 1;



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volatile int value = 1;



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#	Thread-1	Thread-2
1	Read value (=1)	
2		Read value (=1)
3	Add 1 and write (=2)	
4		Add 1 and write (=2)



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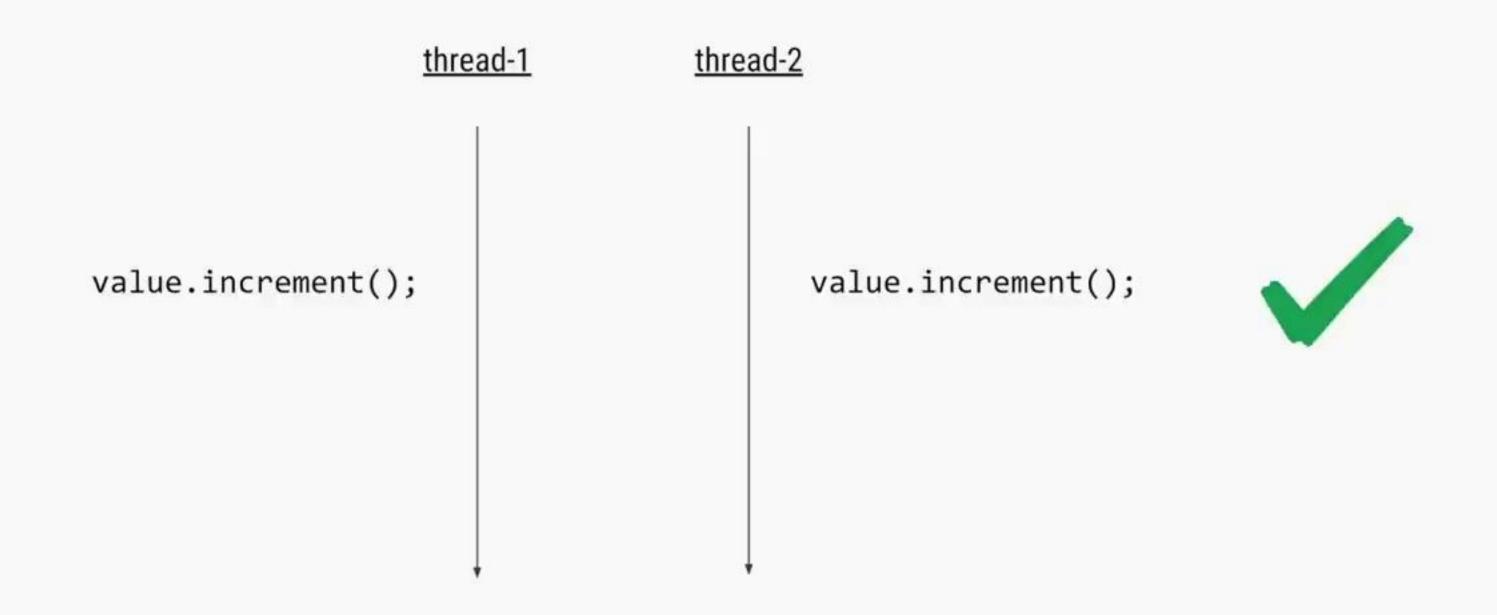
```
volatile int value = 1;
```

```
thread-1
                                      thread-2
                                             synchronized (obj) {
synchronized (obj) {
    value++;
                                                  value++;
```

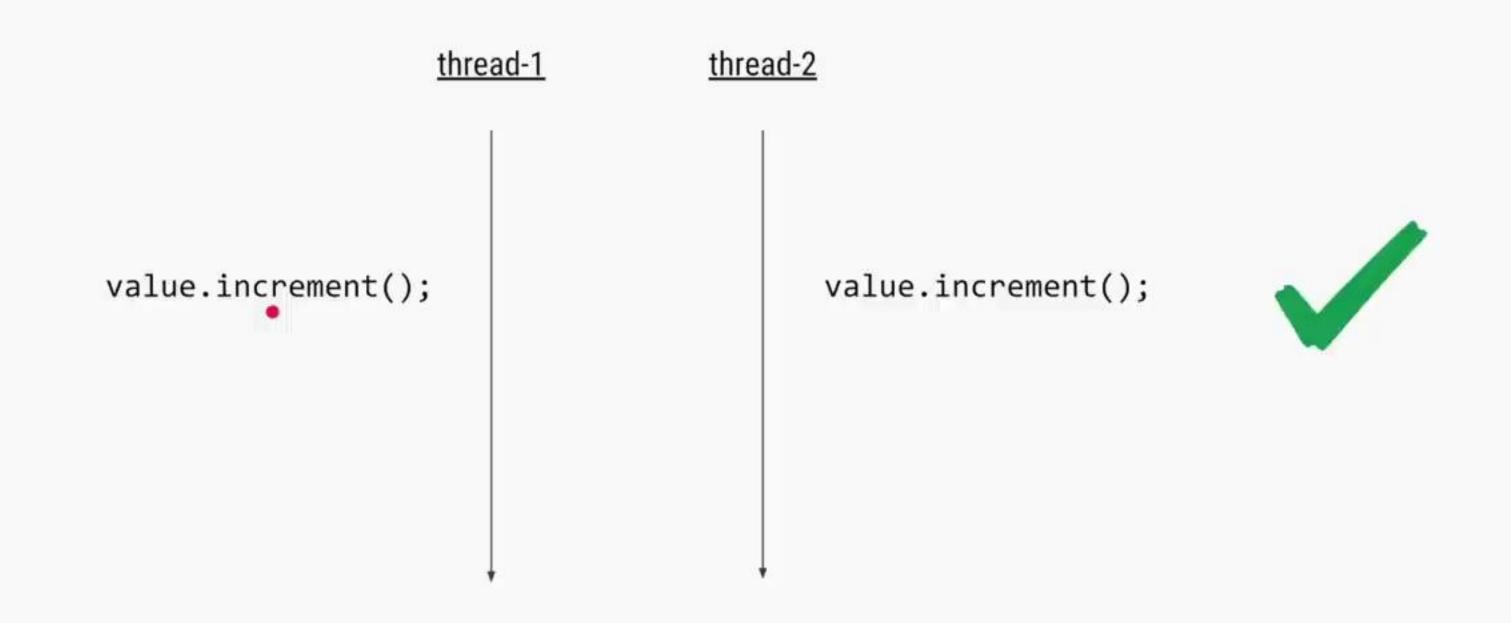
```
volatile int value = 1;
```

```
thread-1
                                      thread-2
synchronized (obj) {
                                             synchronized (obj) {
     value++;
                                                  value++;
```

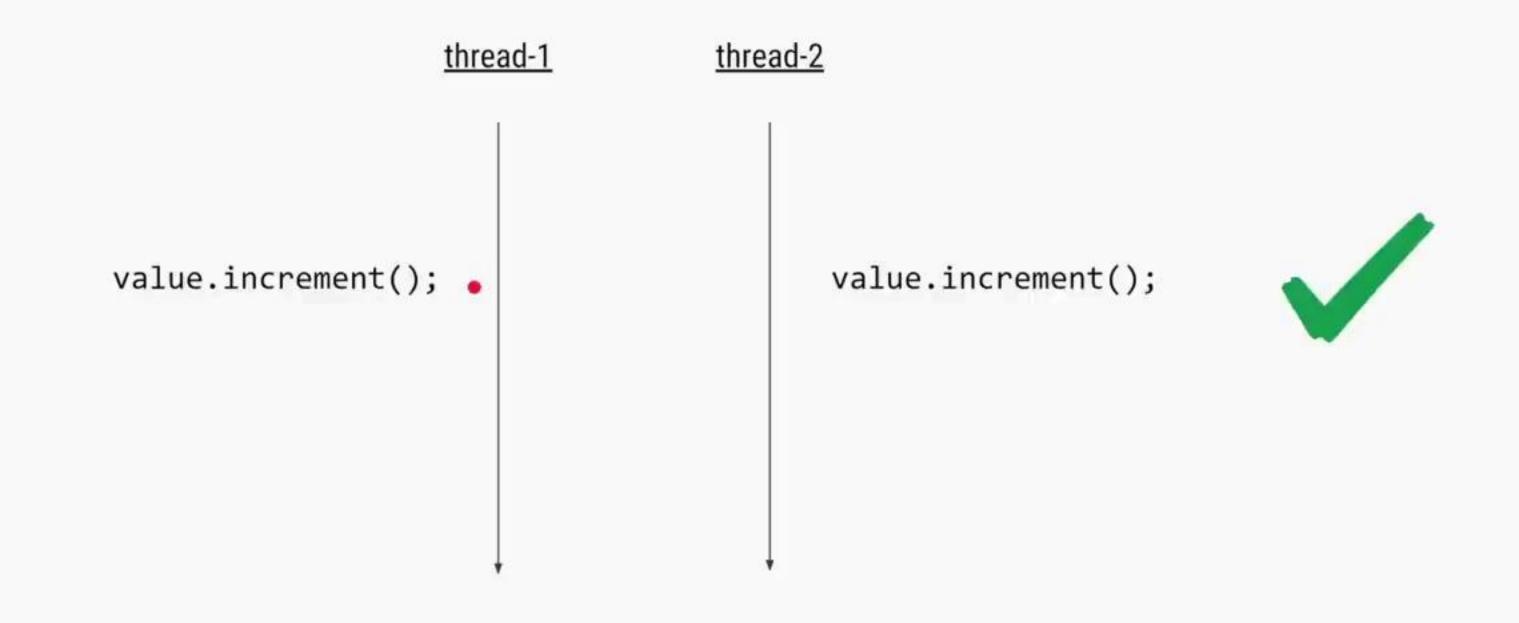
```
AtomicInteger value = new AtomicInteger(1);
```



```
AtomicInteger value = new AtomicInteger(1);
```



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```



#### Many methods for various compound operations

- incrementAndGet
- decrementAndGet
- addAndGet (int delta)
- compareAndSet (int expectedValue, int newValue)

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## Compound Operations

### Atomic variables

#### Typical Use Cases

Туре	Use Case
volatile	Flags
AtomicInteger AtomicLong	Counters
AtomicReference	Caches (building new cache in background and replacing atomically)  Used by some internal classes  Non-blocking algorithms

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### Thank you!

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