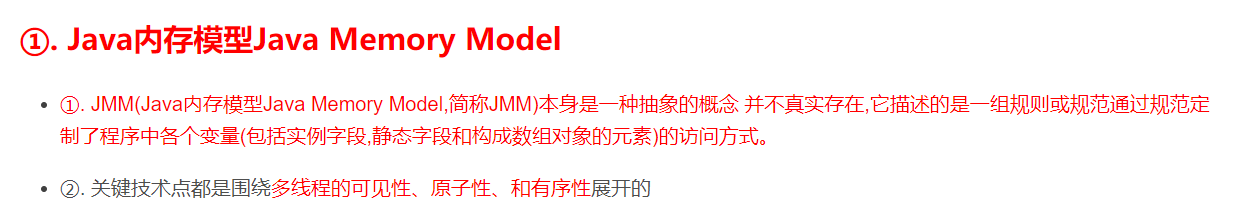
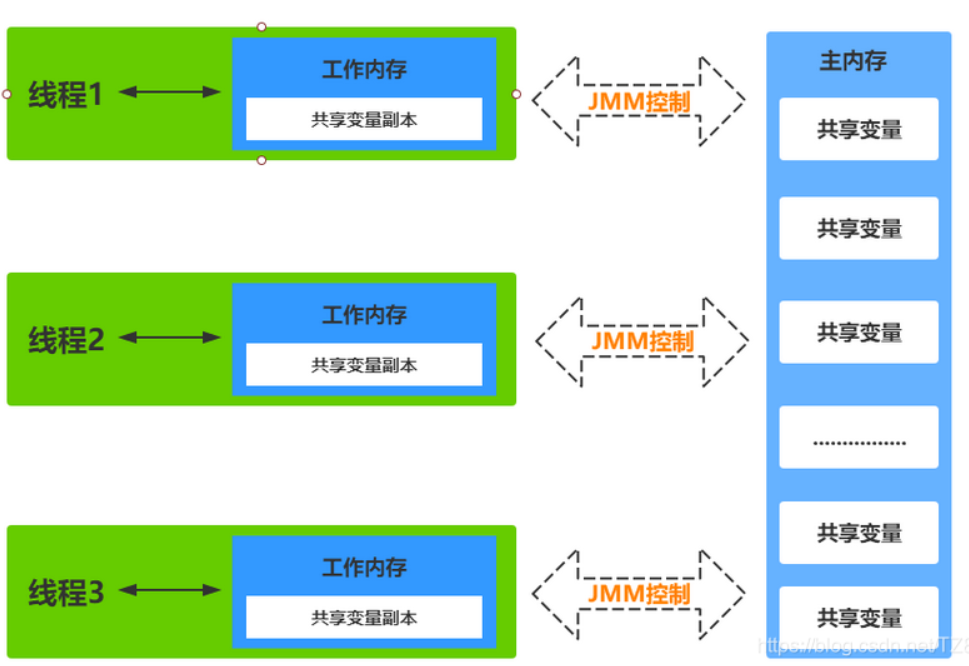
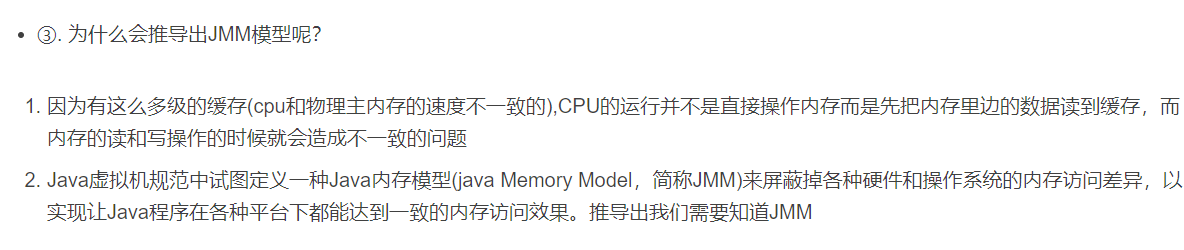
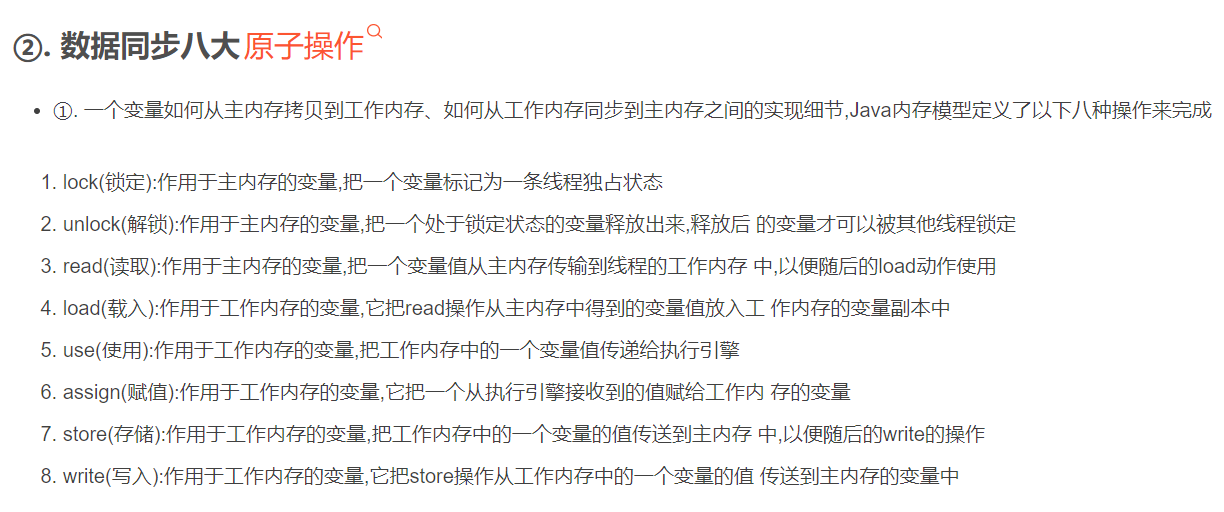
## Juc11\_Java内存模型之JMM、八大原子操作、三大特性、读写过程、happens-before

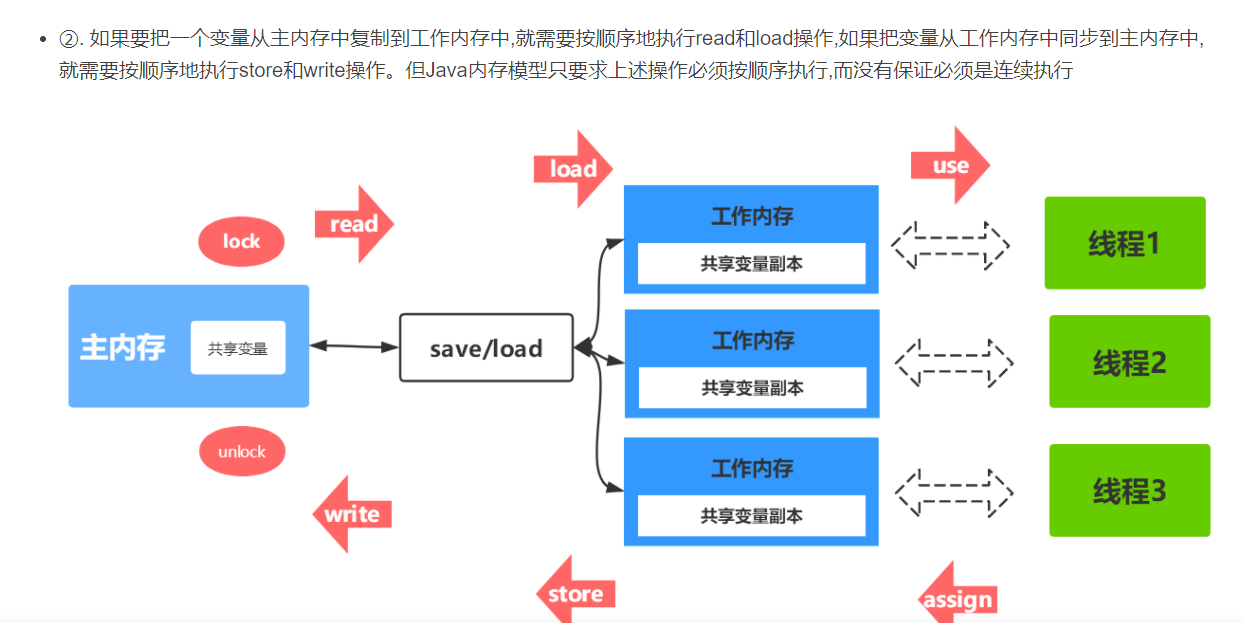


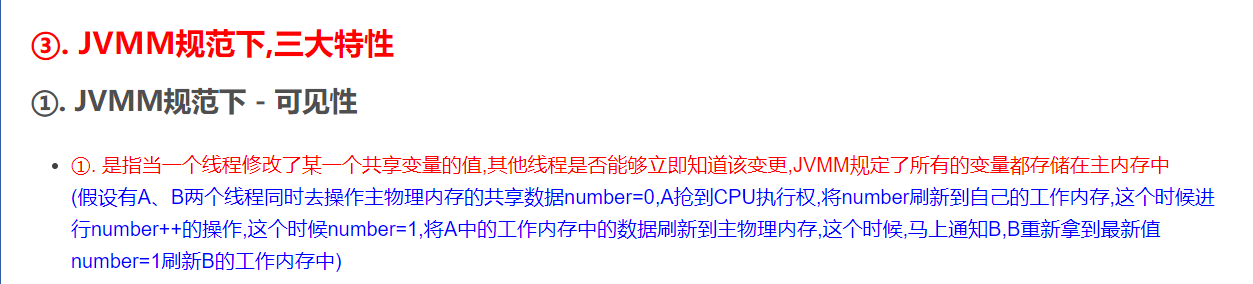


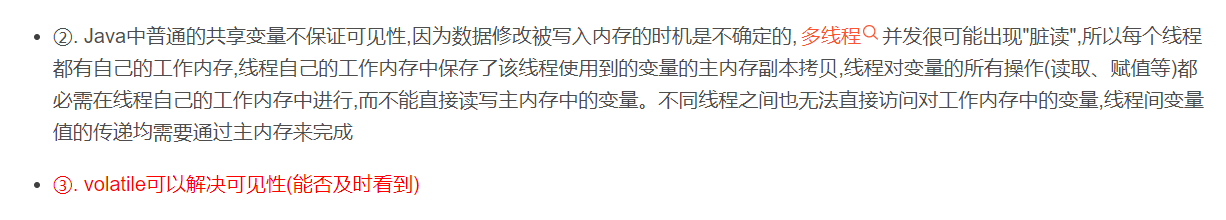


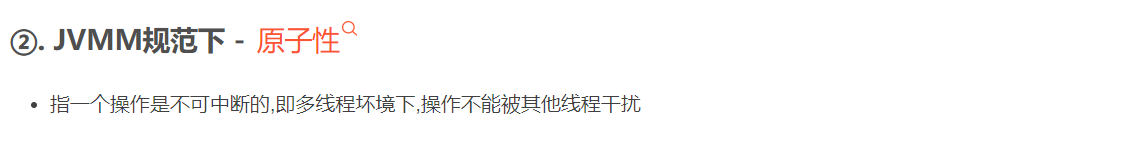


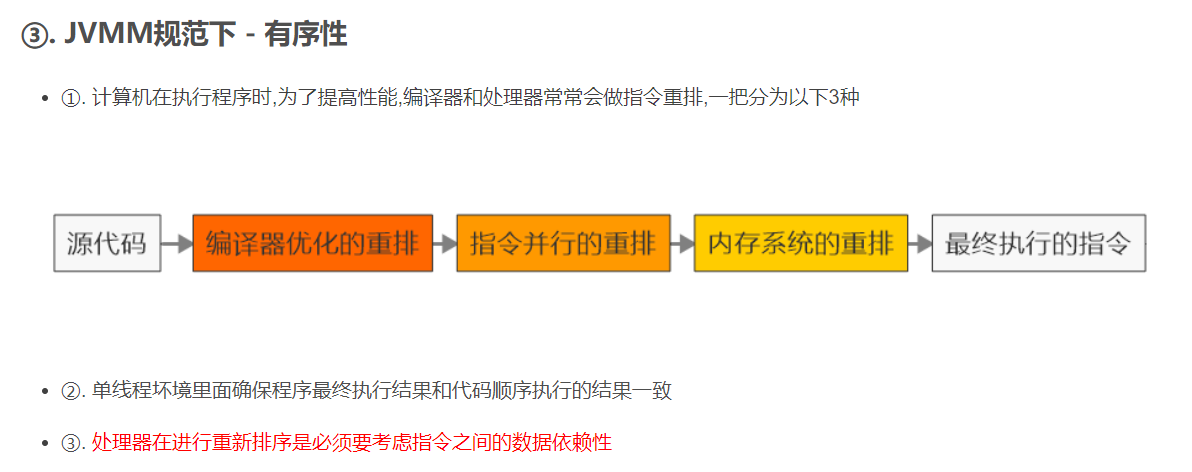






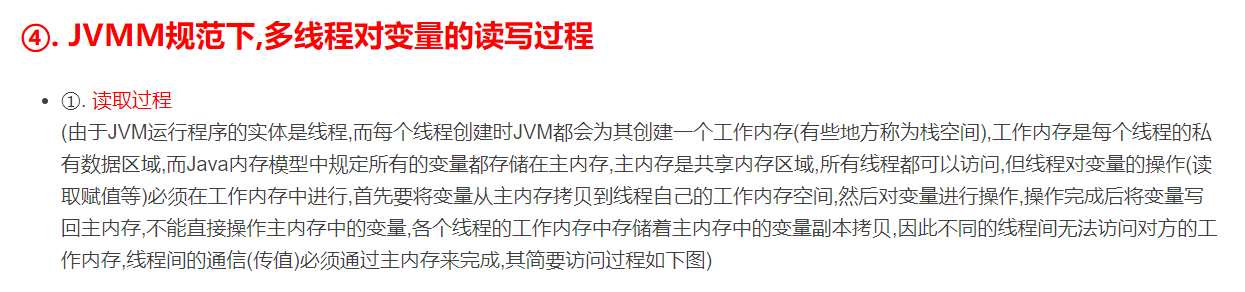


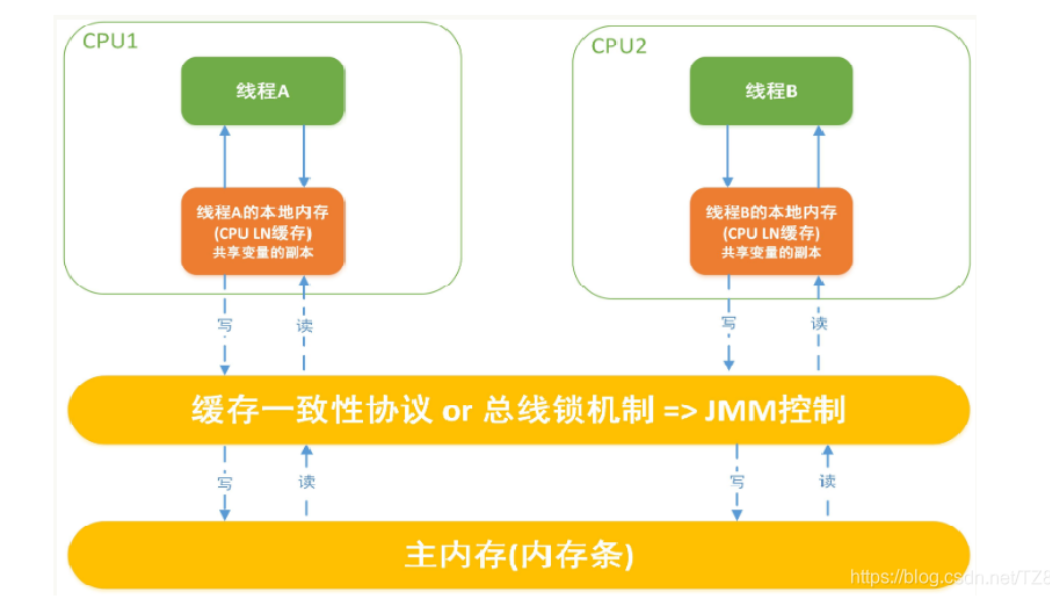


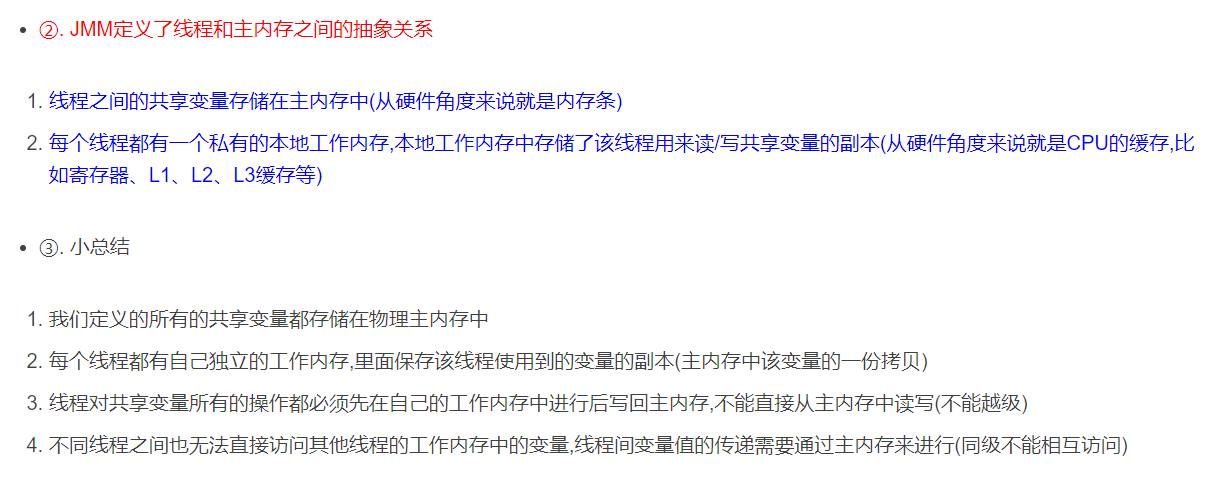




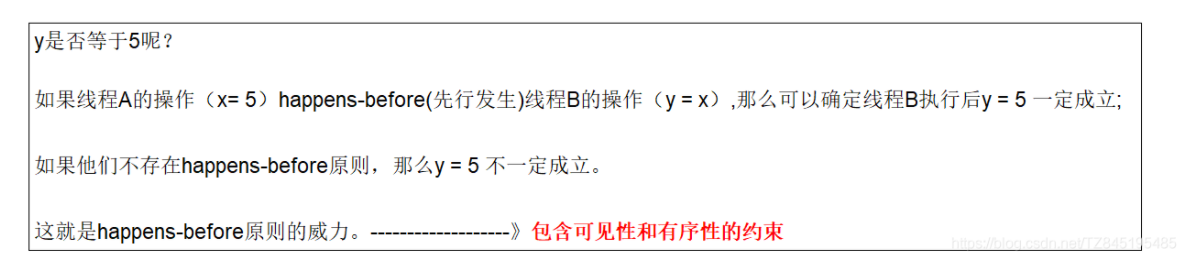




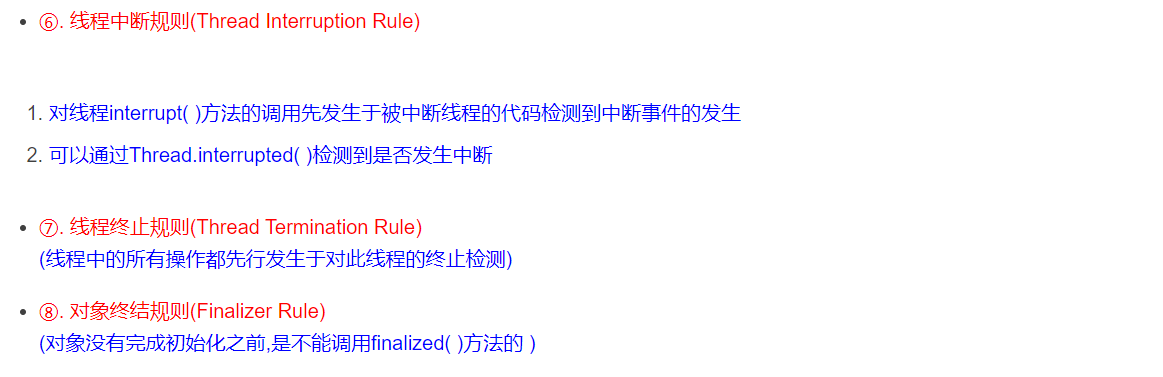


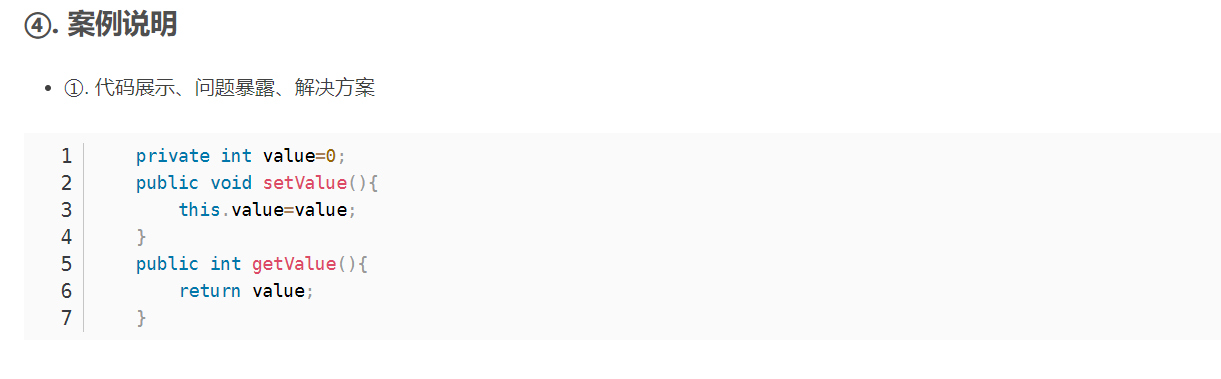


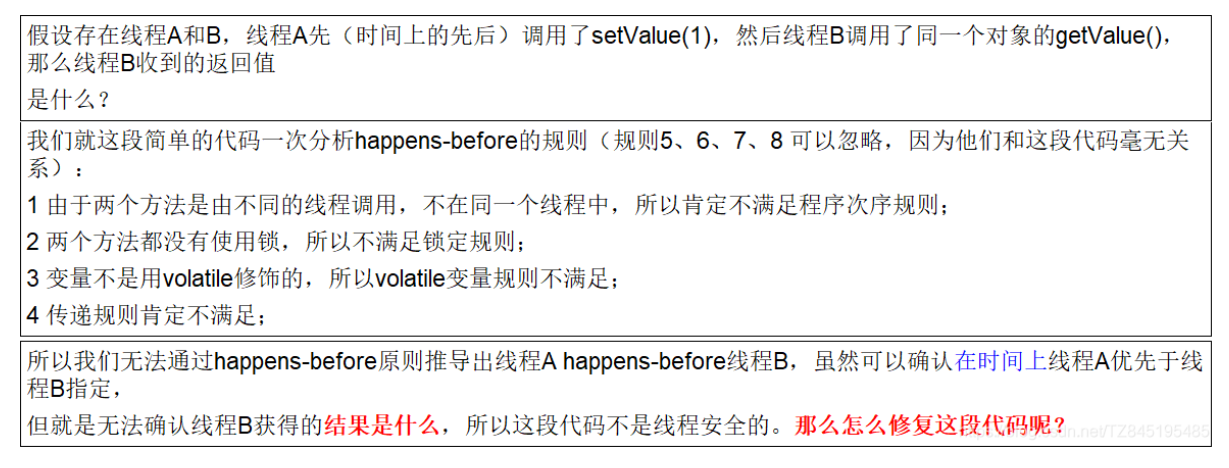


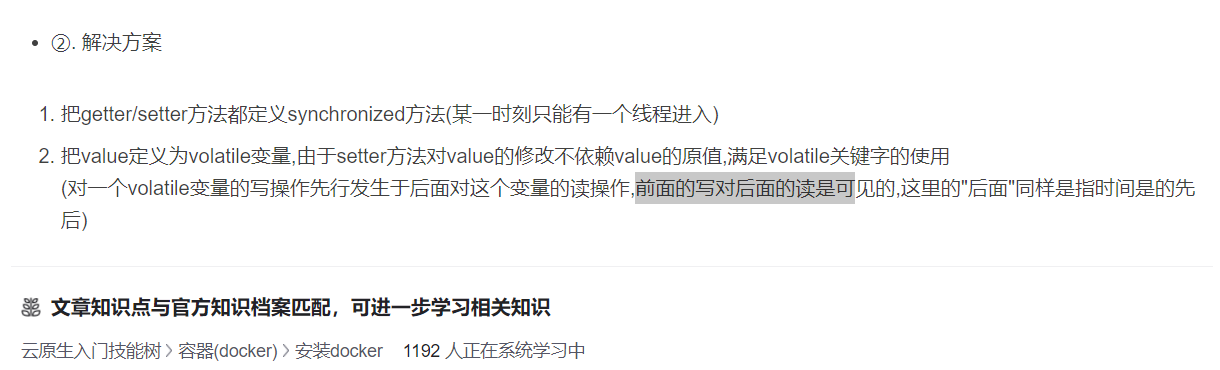






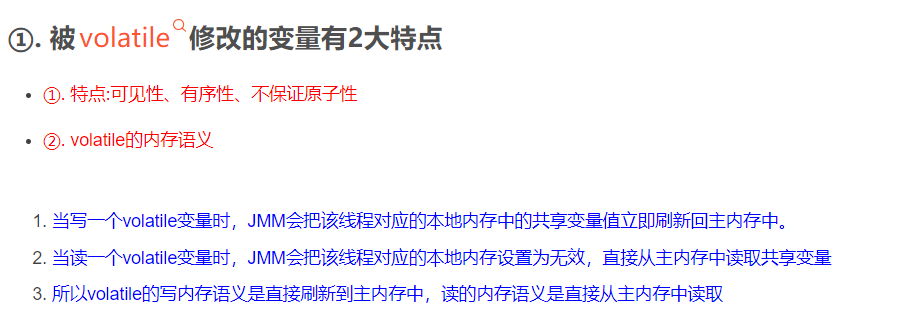


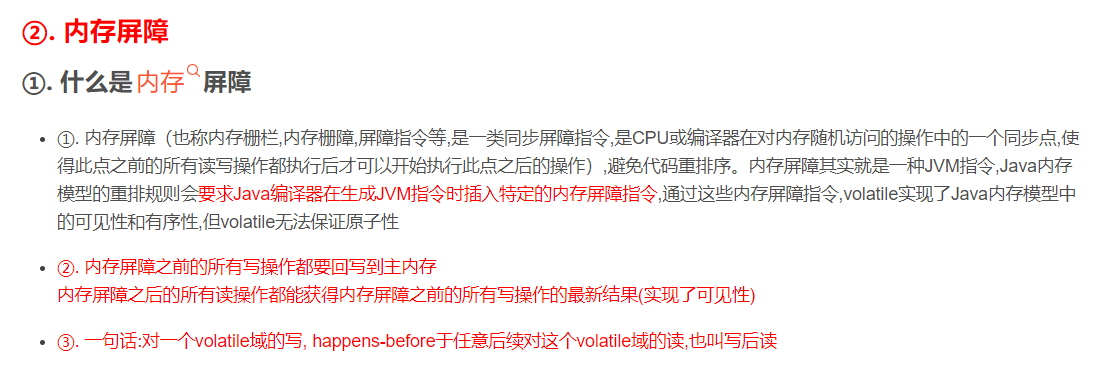


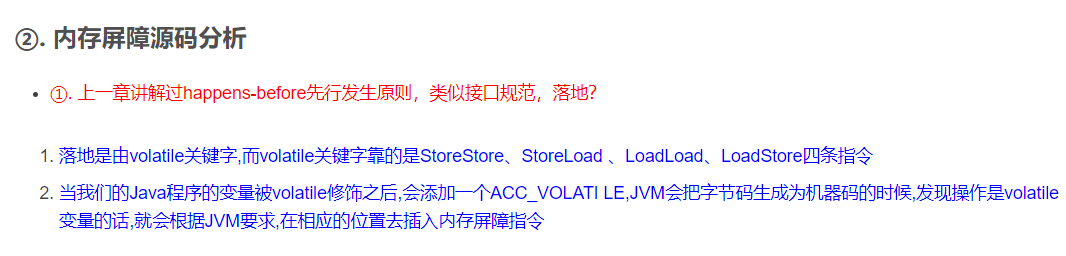


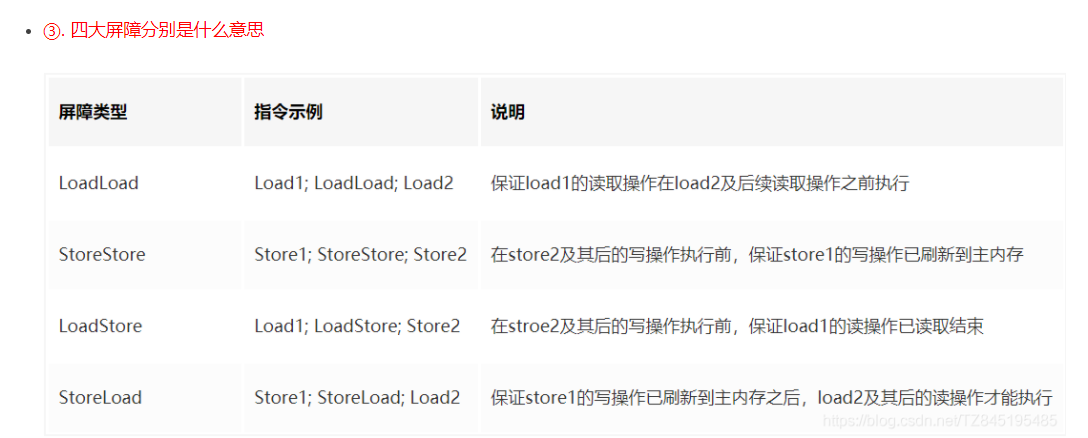
## Juc12\_Volatile的可见性、不保证可见性、有序性、使用、内存屏障四大指令StoreStore、StoreLoad 、LoadLoad、LoadStore



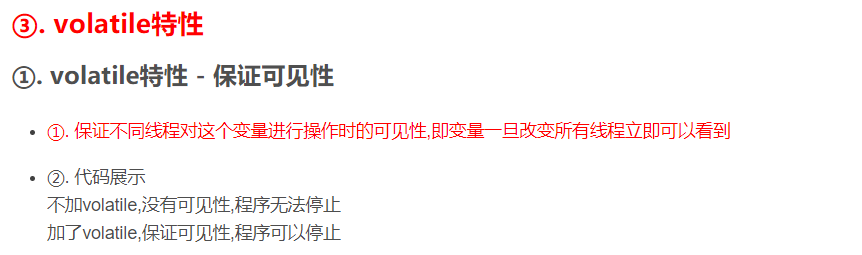


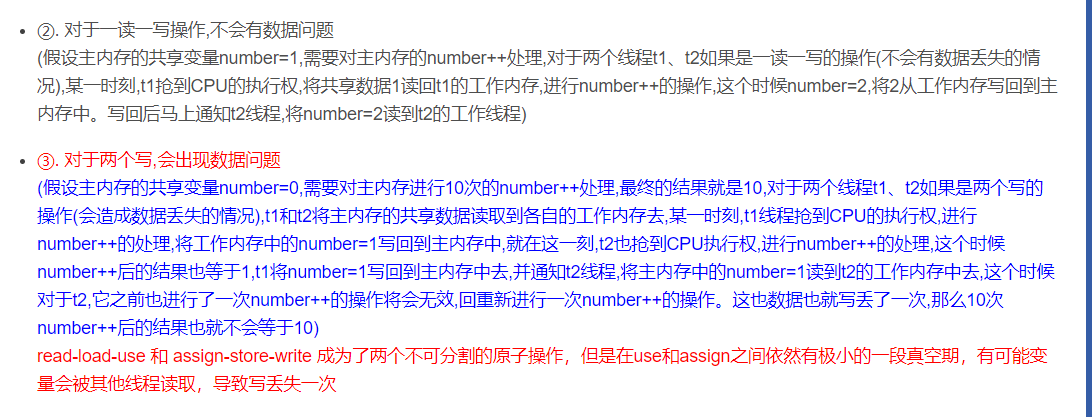


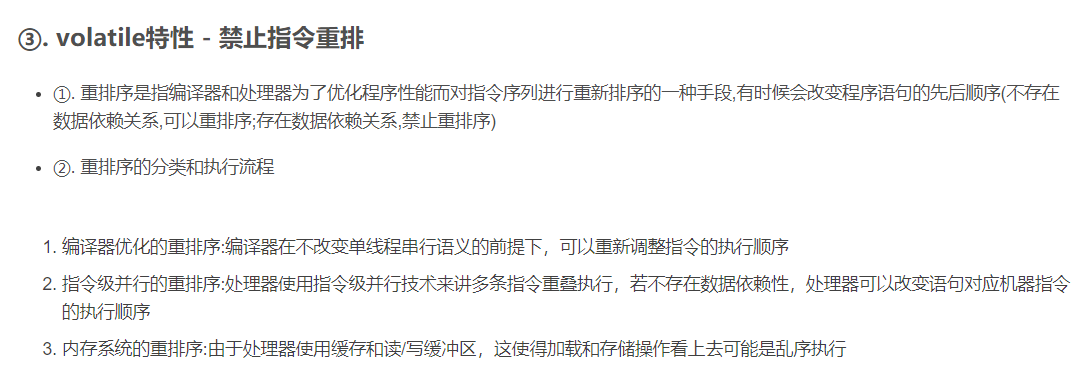














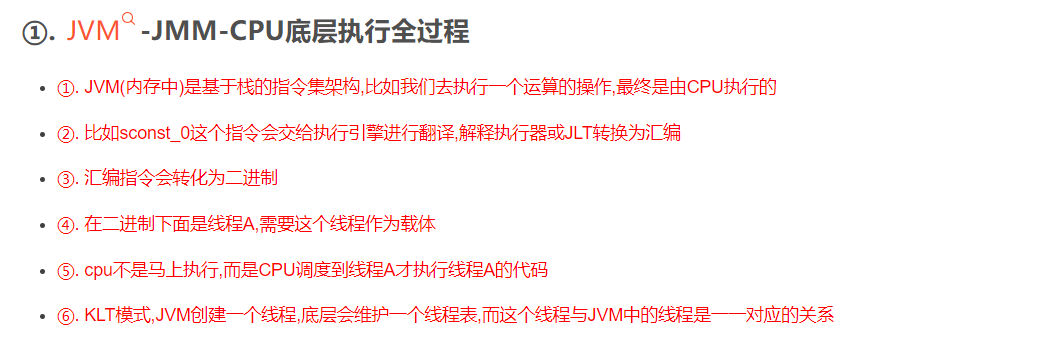


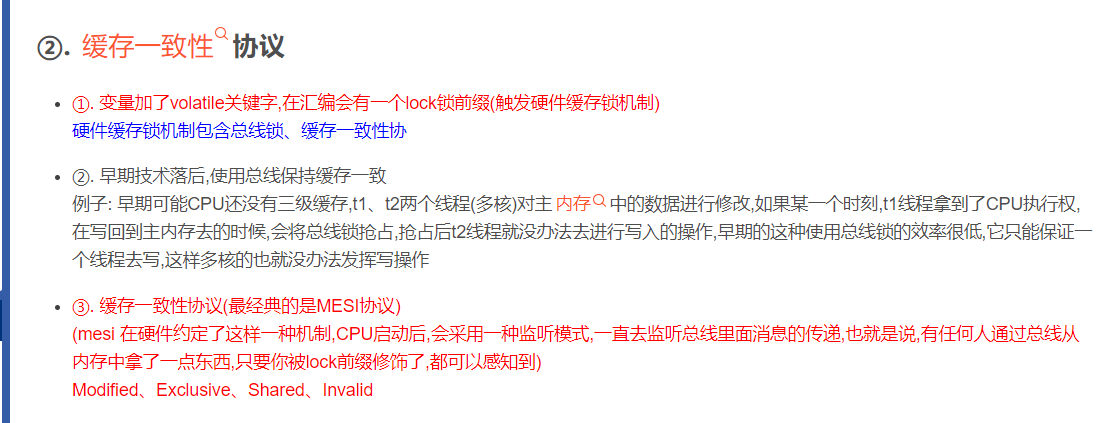


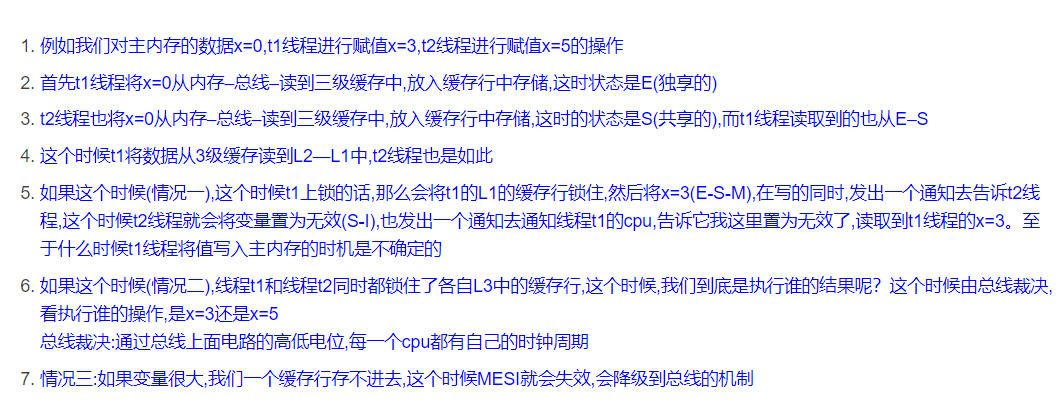




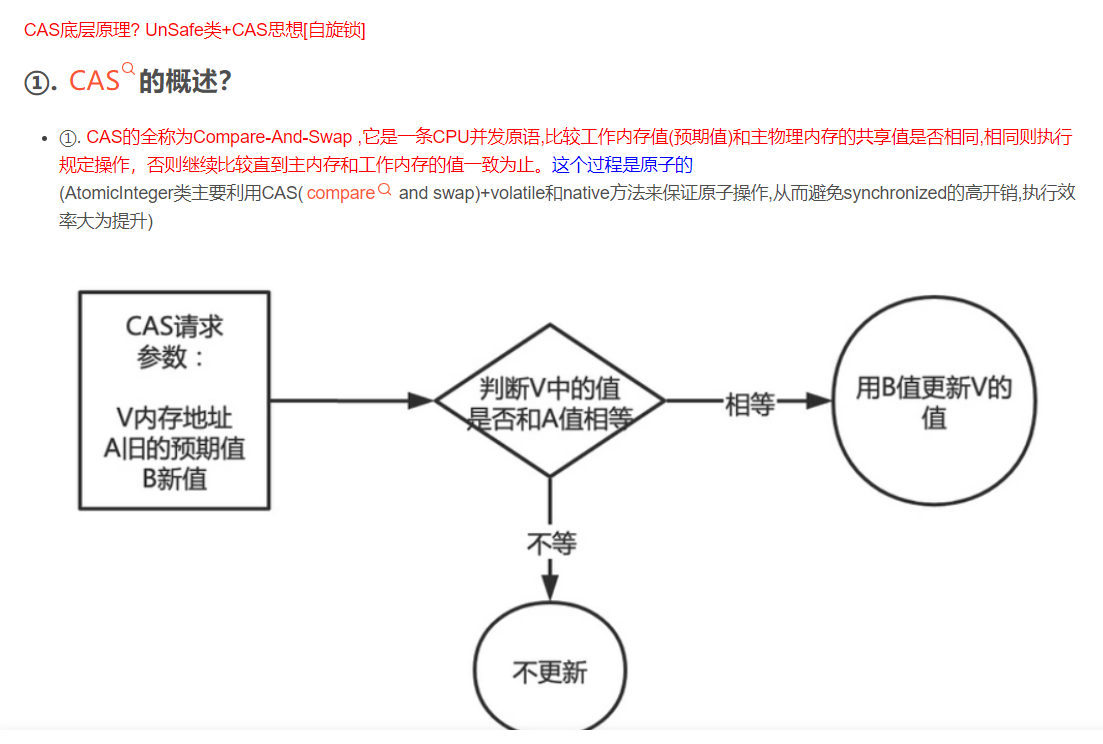
## Juc13\_JVM-JMM-CPU底层执行全过程、缓存一致性协议MESI

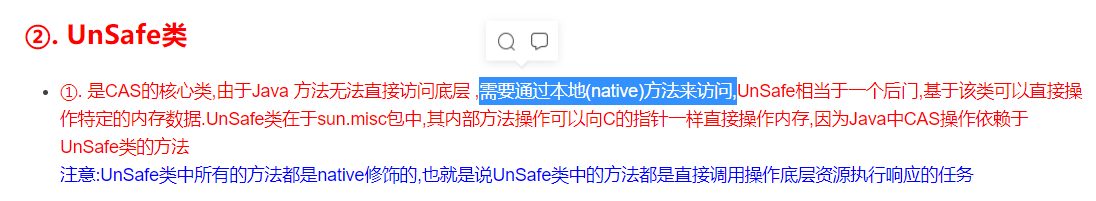






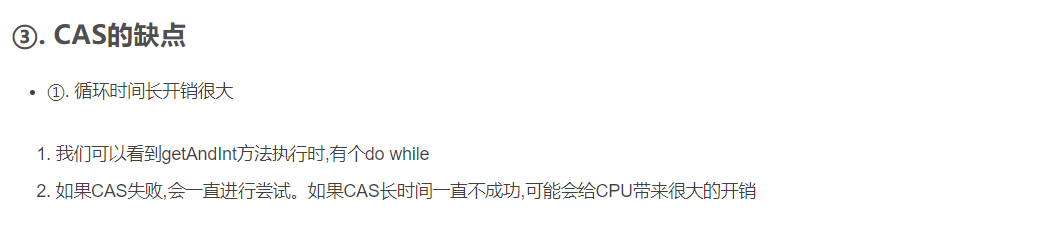
## Juc14\_CAS的概述、Unsafe类的原理、CAS缺点、ABA问题如何解决

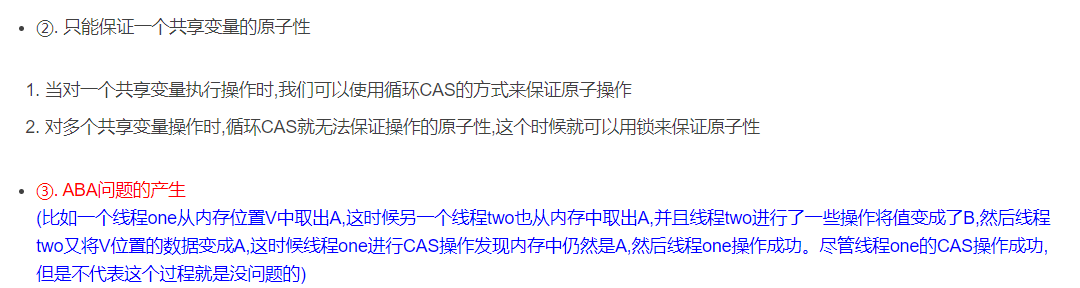


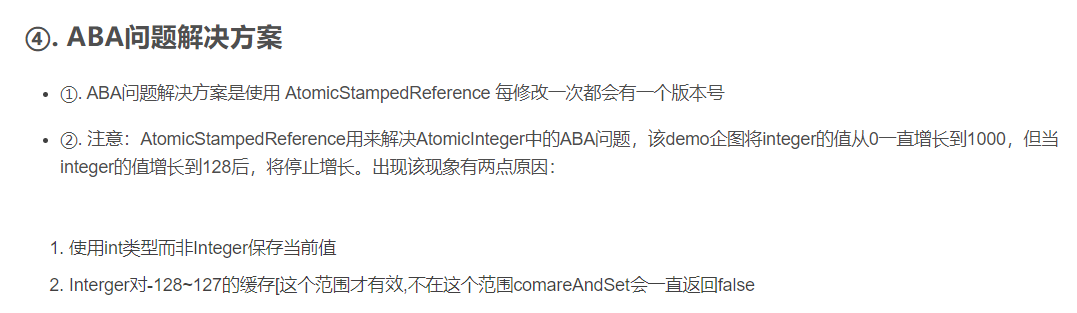












## Juc15\_基本AtomicInteger、数组、引用AtomicStampedReference、对象的属性修改原子类AtomicIntegerFieldUp 、原子操作增强类LongAdder



