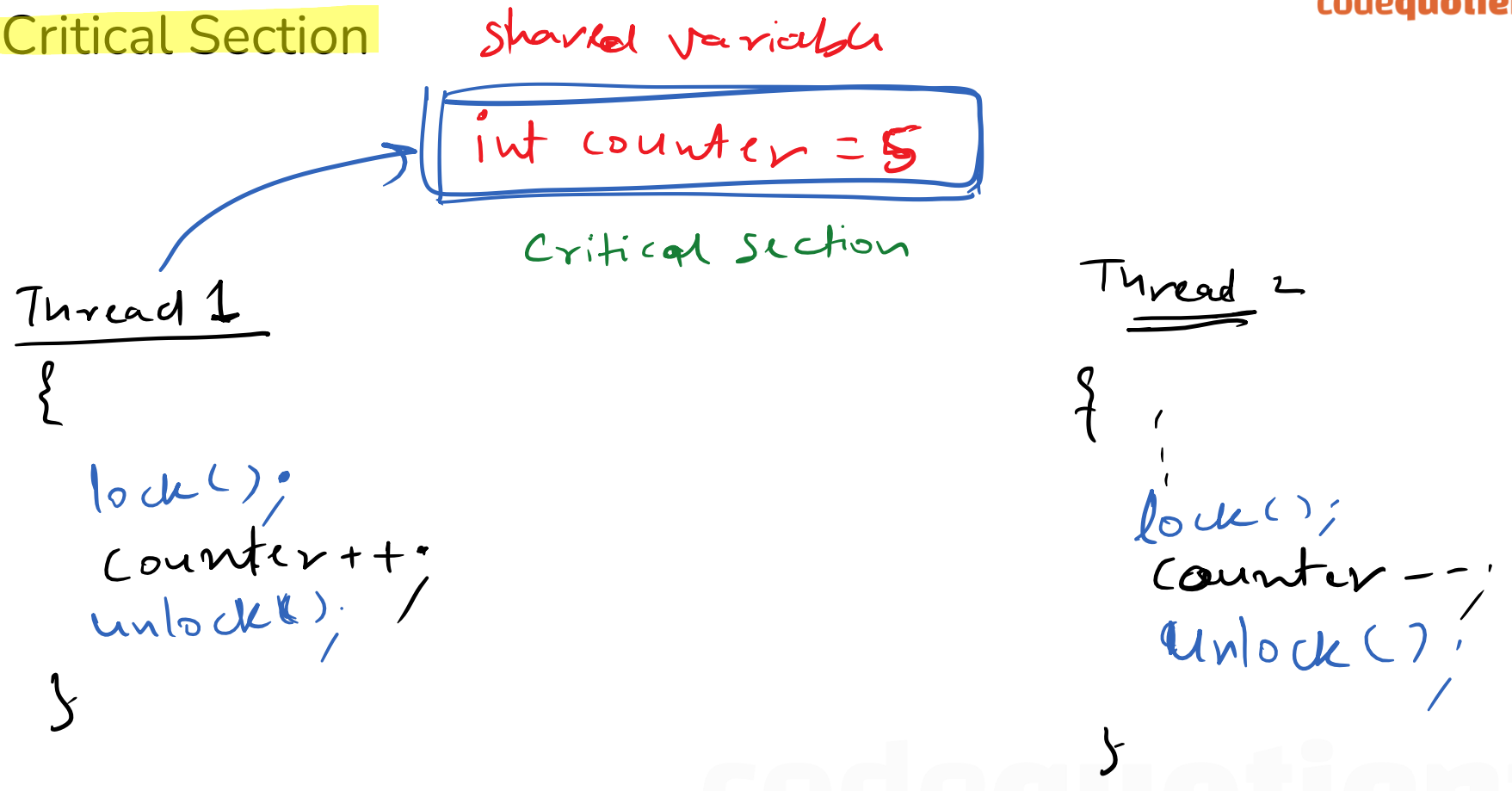
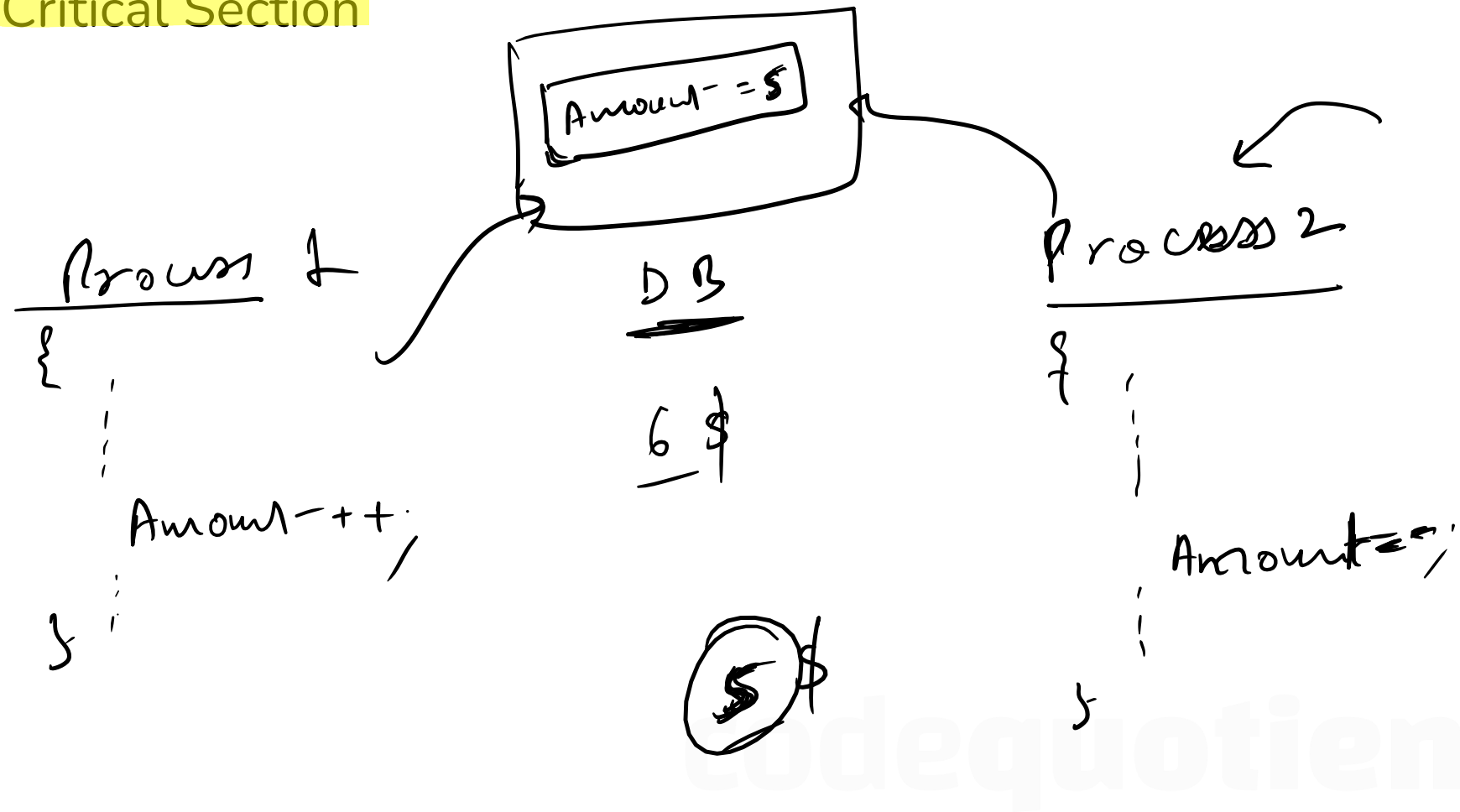
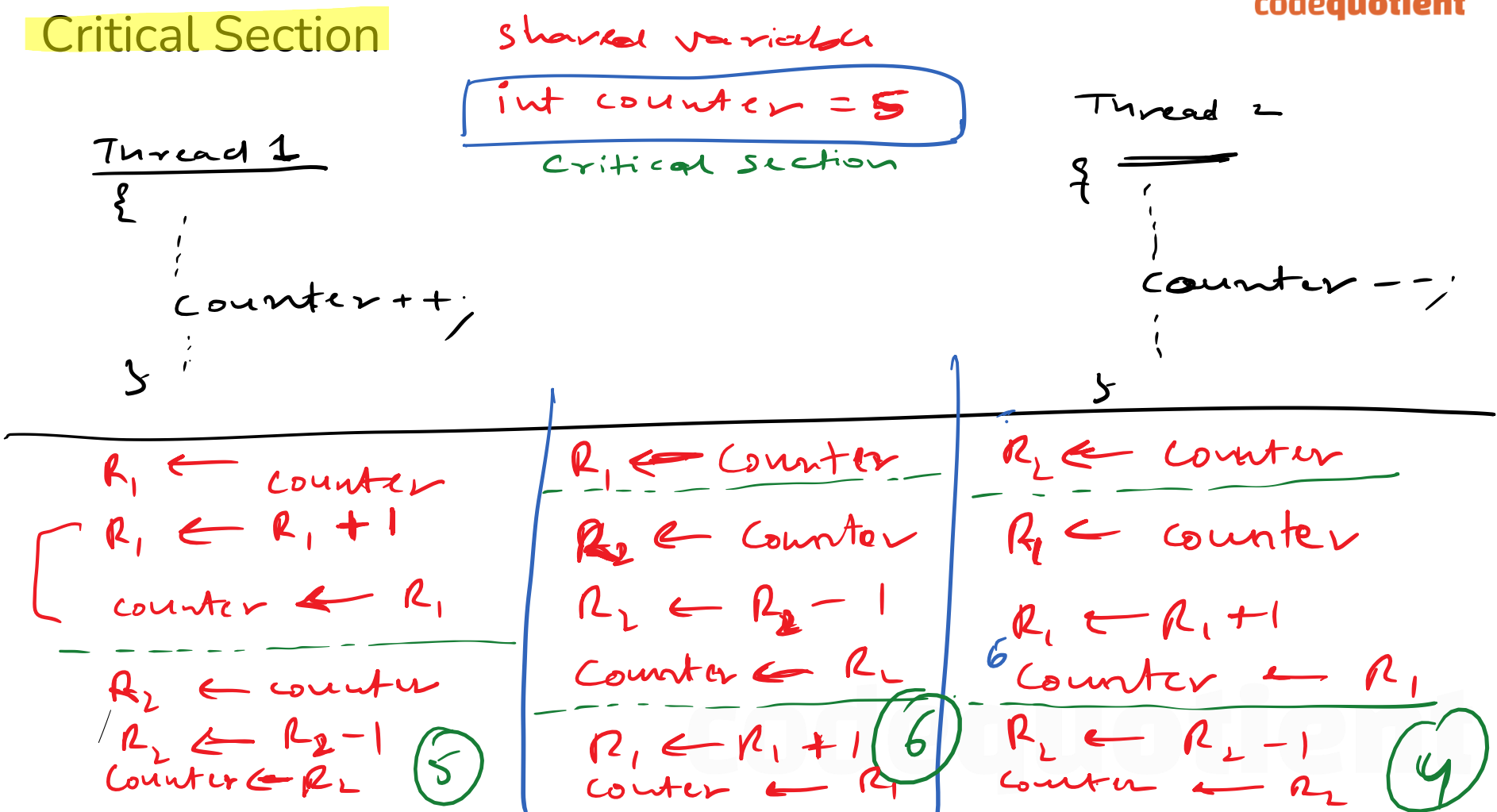
Critical Section



Critical Section



Critical Section

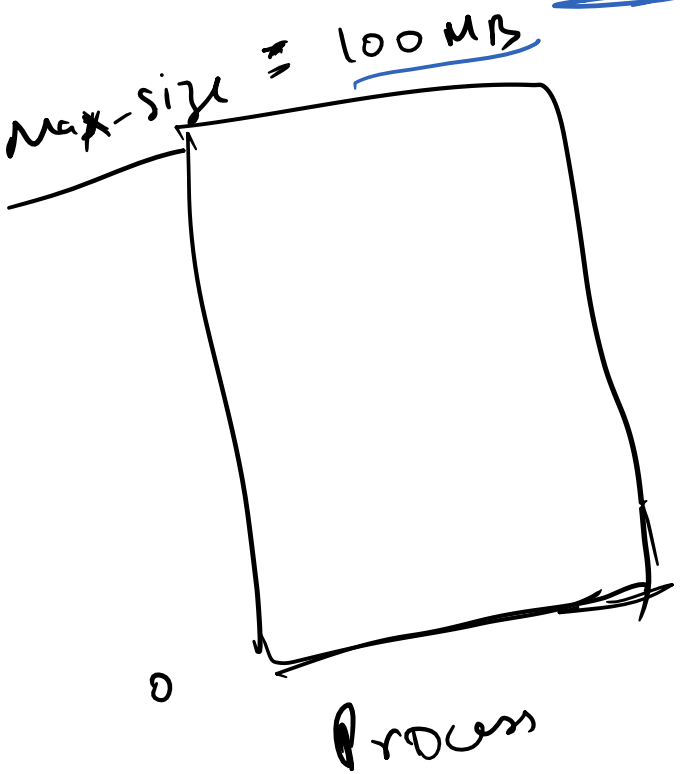


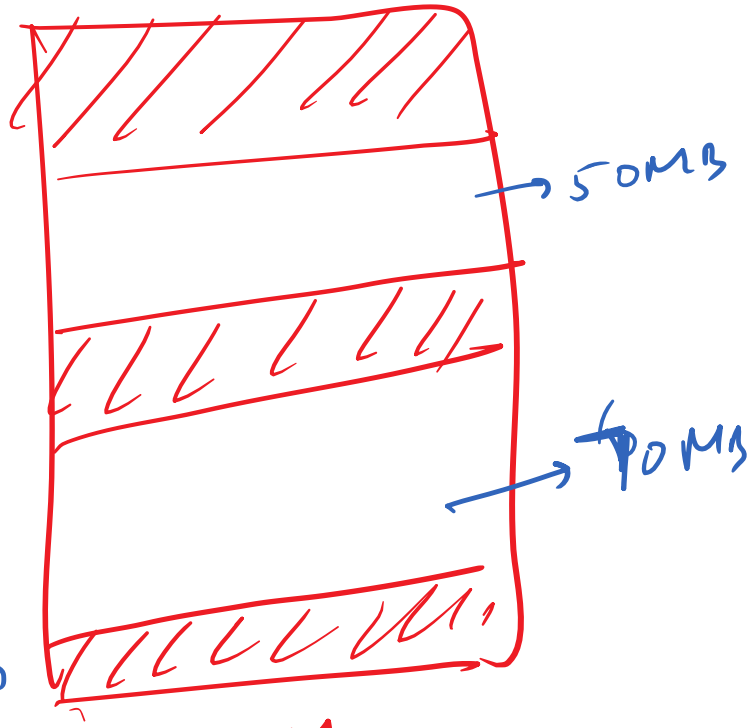
Race Condition

- A situation where several processes access and manipulate the same data (critical section)
- The outcome depends on the order in which the access takes place

- Prevent race conditions by synchronization using locks

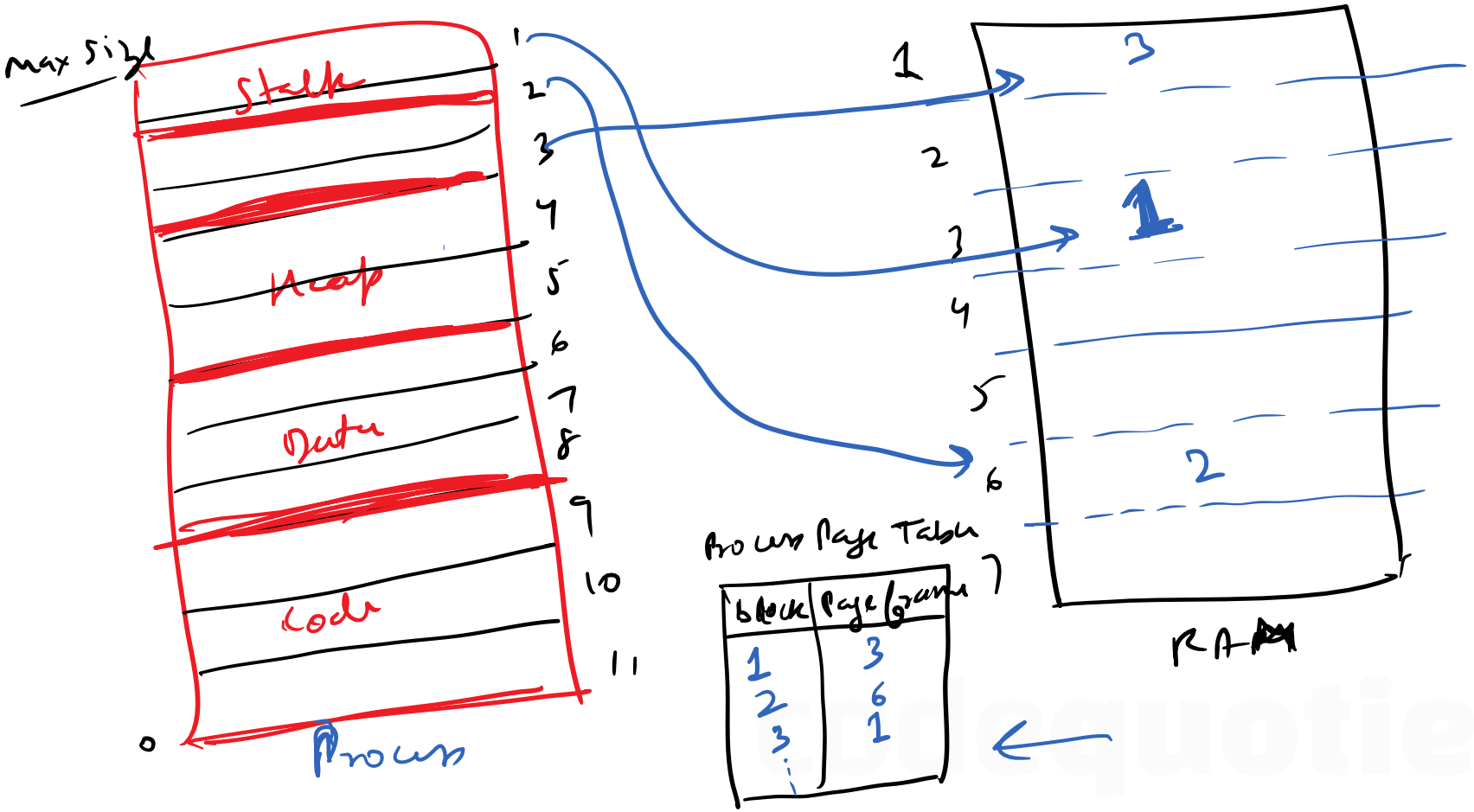
Virtual Memory (Paging)



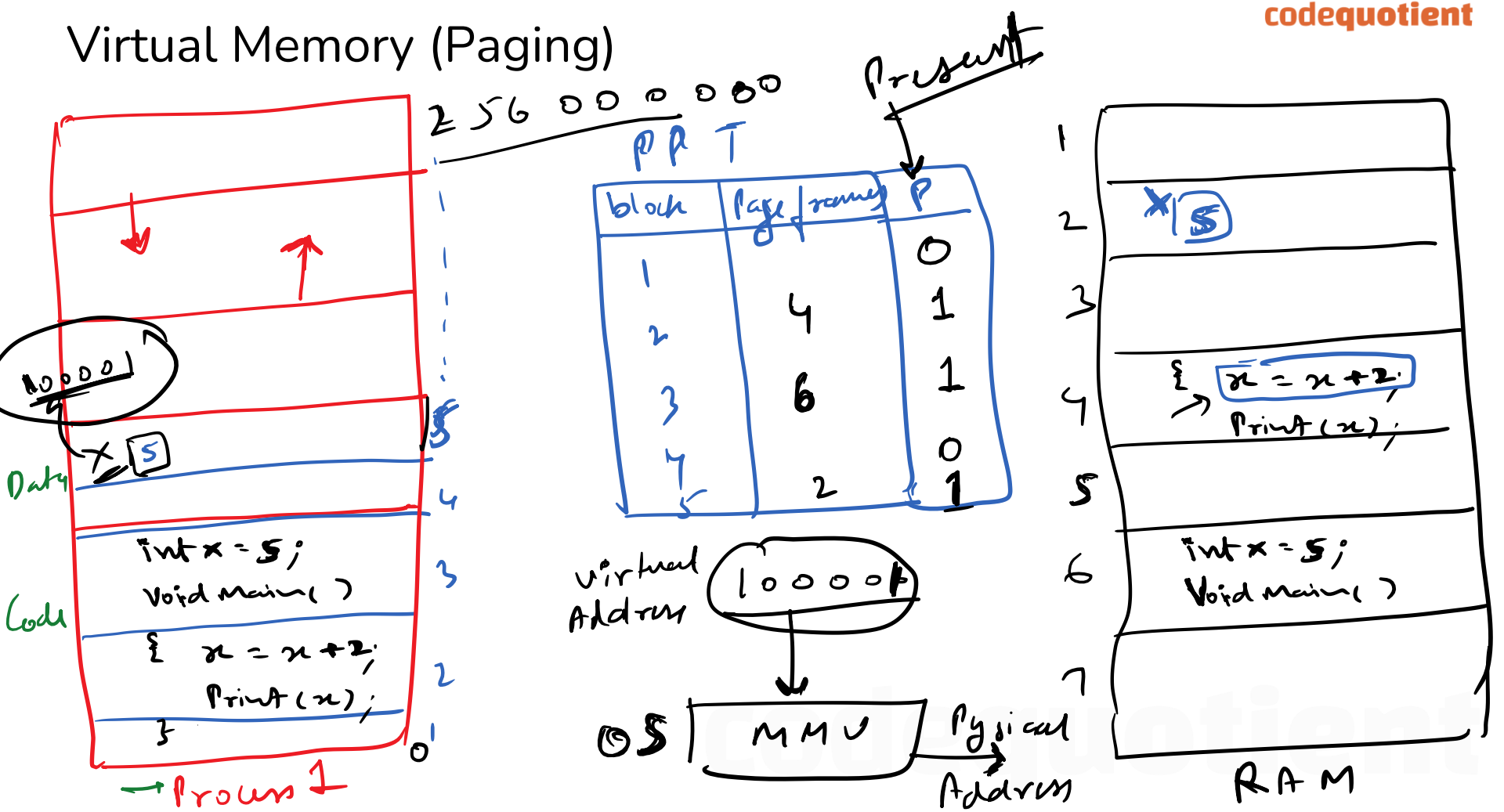


Fragmentation

Virtual Memory (Paging)



Virtual Memory (Paging)



Virtual Memory (Paging)