

Recap

Runnable

HelloWorld

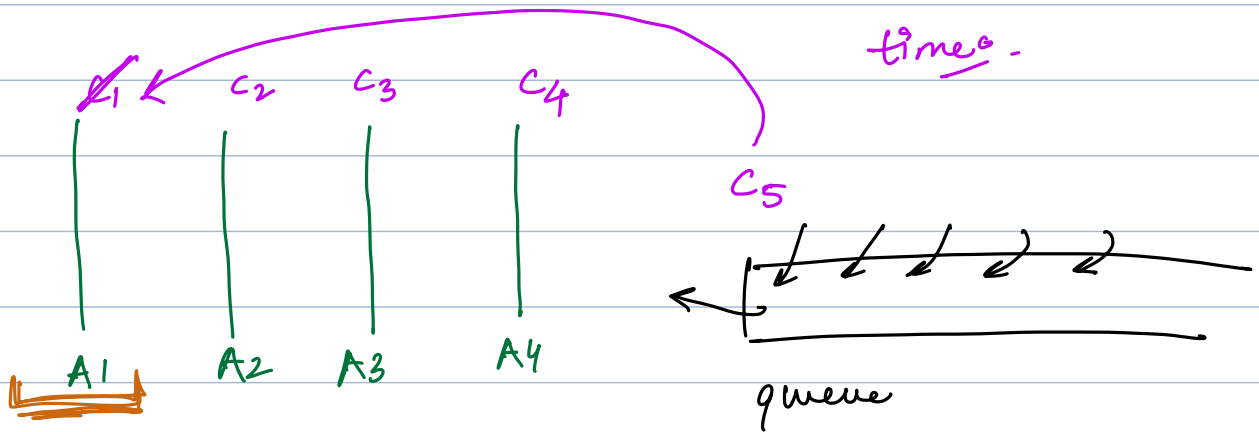
Print 1 → 100

Agenda

- Executors
- callable
- merge-sort

{ 1 → 100
created 100 threads. thread .

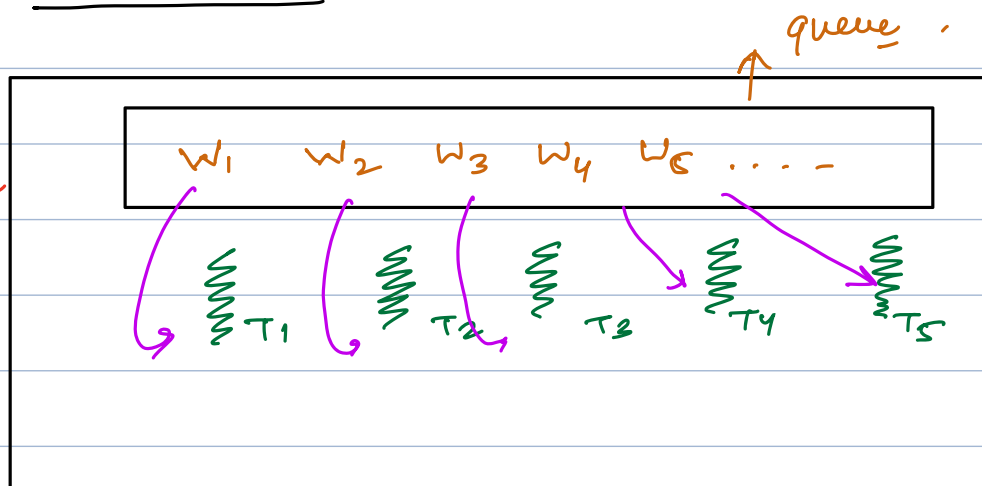
creation & deletion of threads takes some time.



ThreadPool

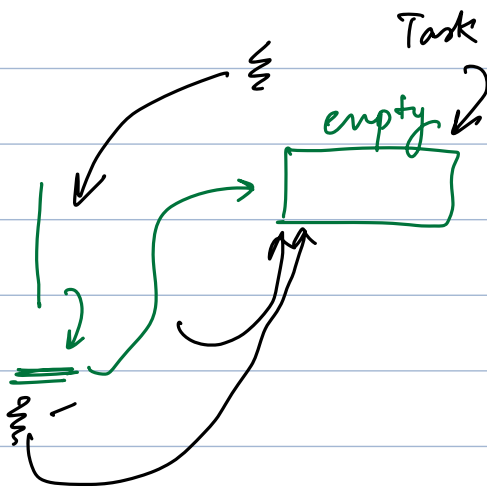
ExecutorService

↓
ThreadPool



frameworks are used in prodⁿ environments,
plain languages are rarely used.

Fixed
↓
fix number
of threads.



Cached.
↓
no fix number, it
creates a new thread
if all existing threads
are busy.

10 11 12 13 . . .

Runnable
↓

void run();

↓
nothing can be returned.

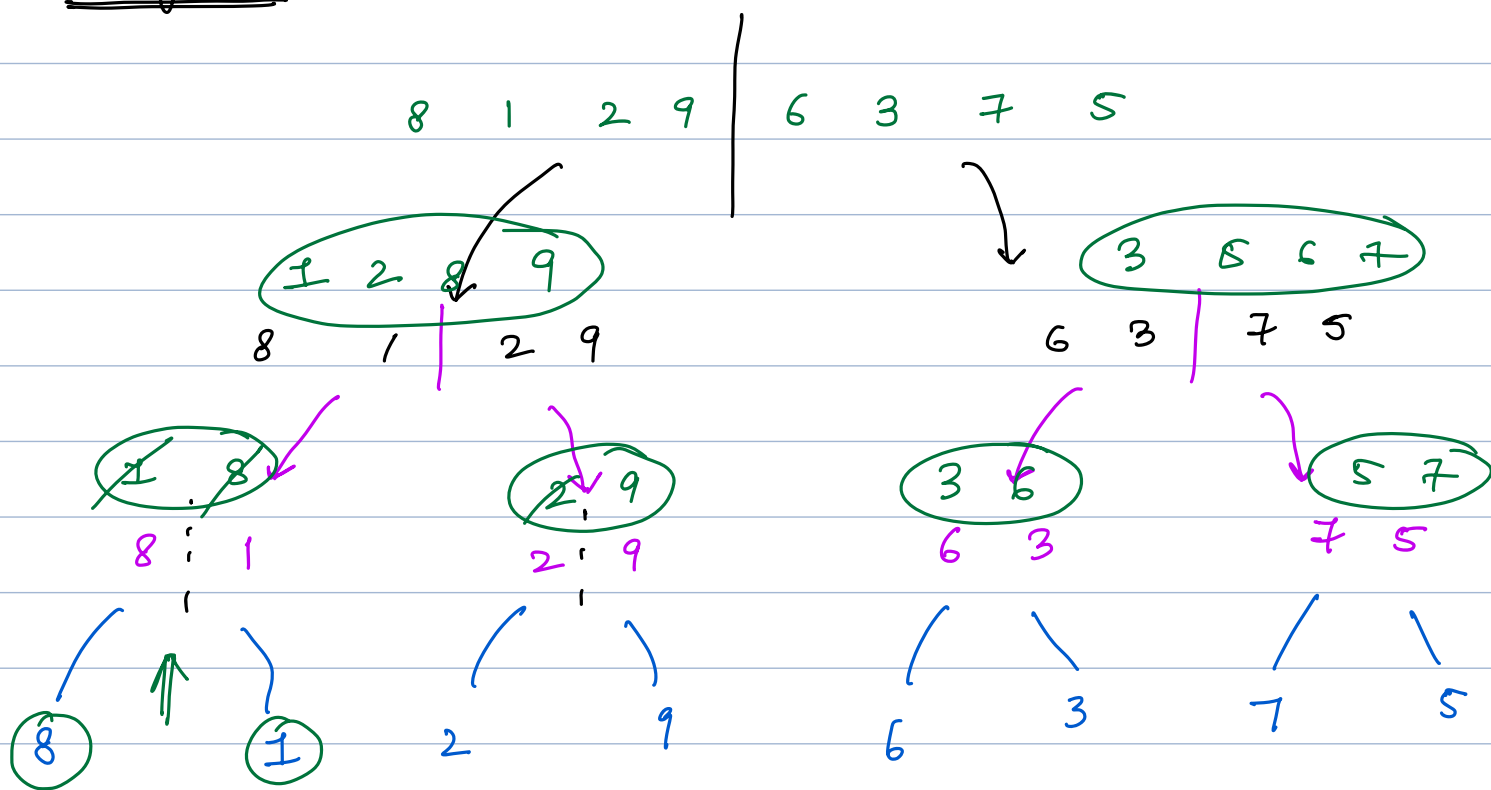
what if we want to return some data
from thread?

interface : Callable

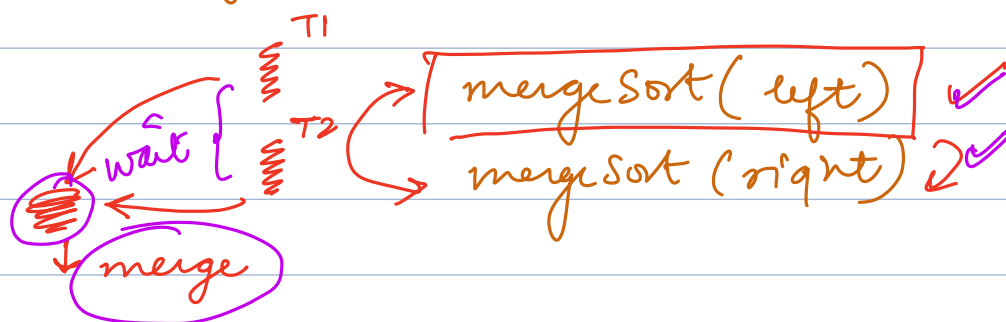
~~T~~ ~~Object~~ call();

generics : placeholder for a type which
can be figured out compile.

MergeSort



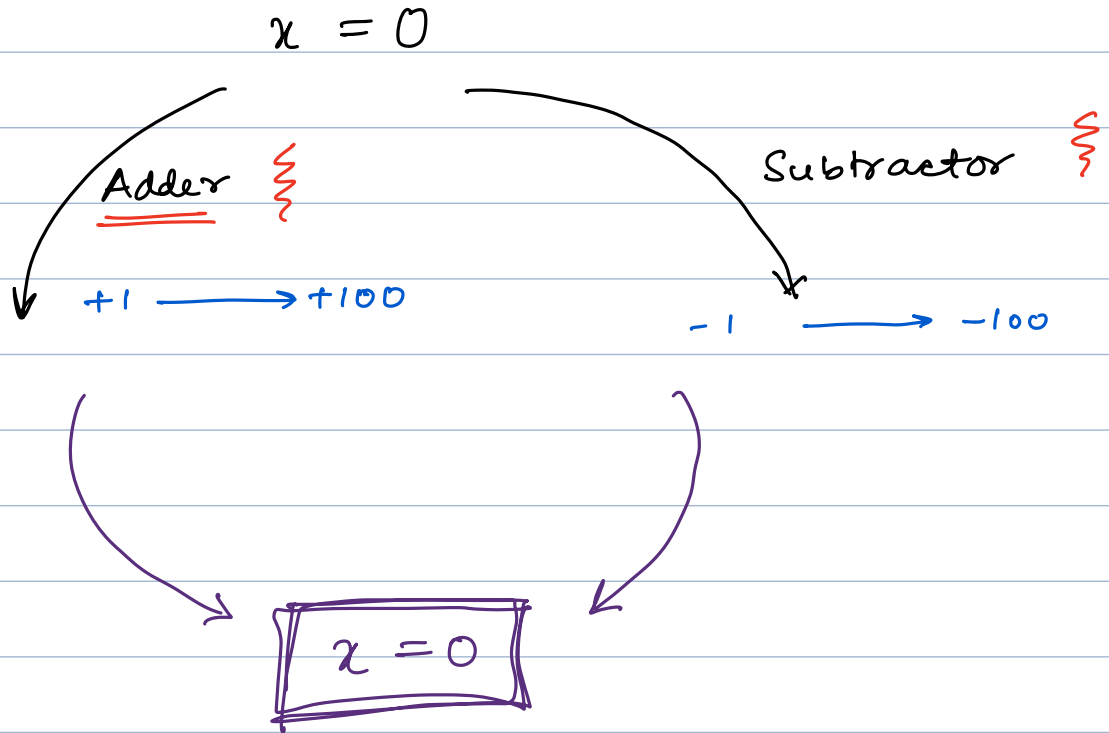
mergeSort (array) :



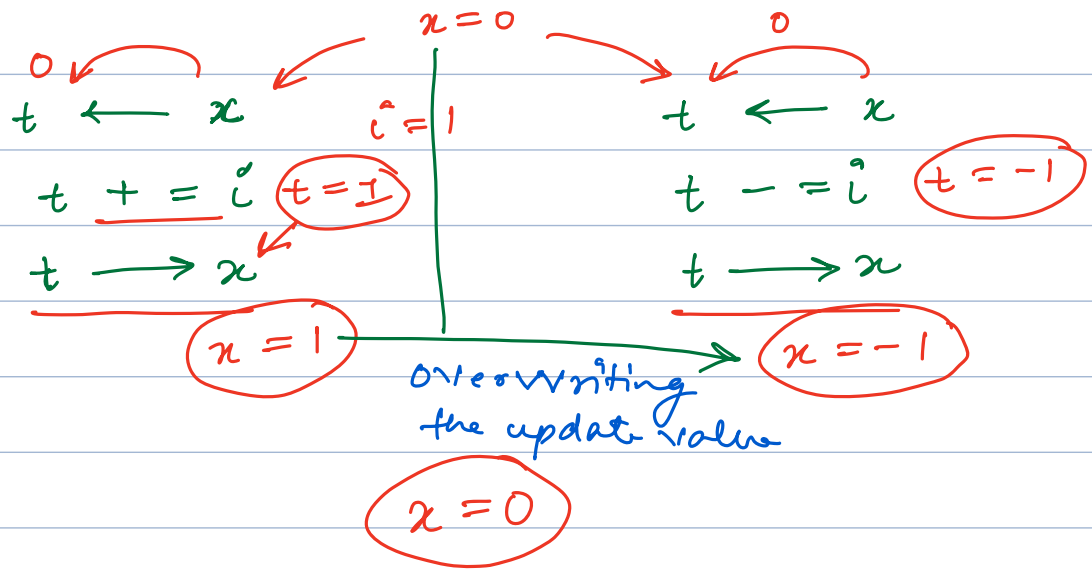
10 mins

: Break

10:14 pm
↑

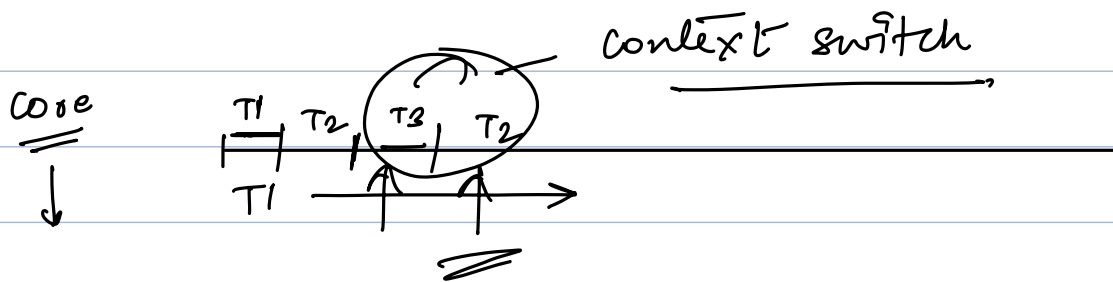


this value $x += i$;



synchronization issue

solving assignments



Executor

