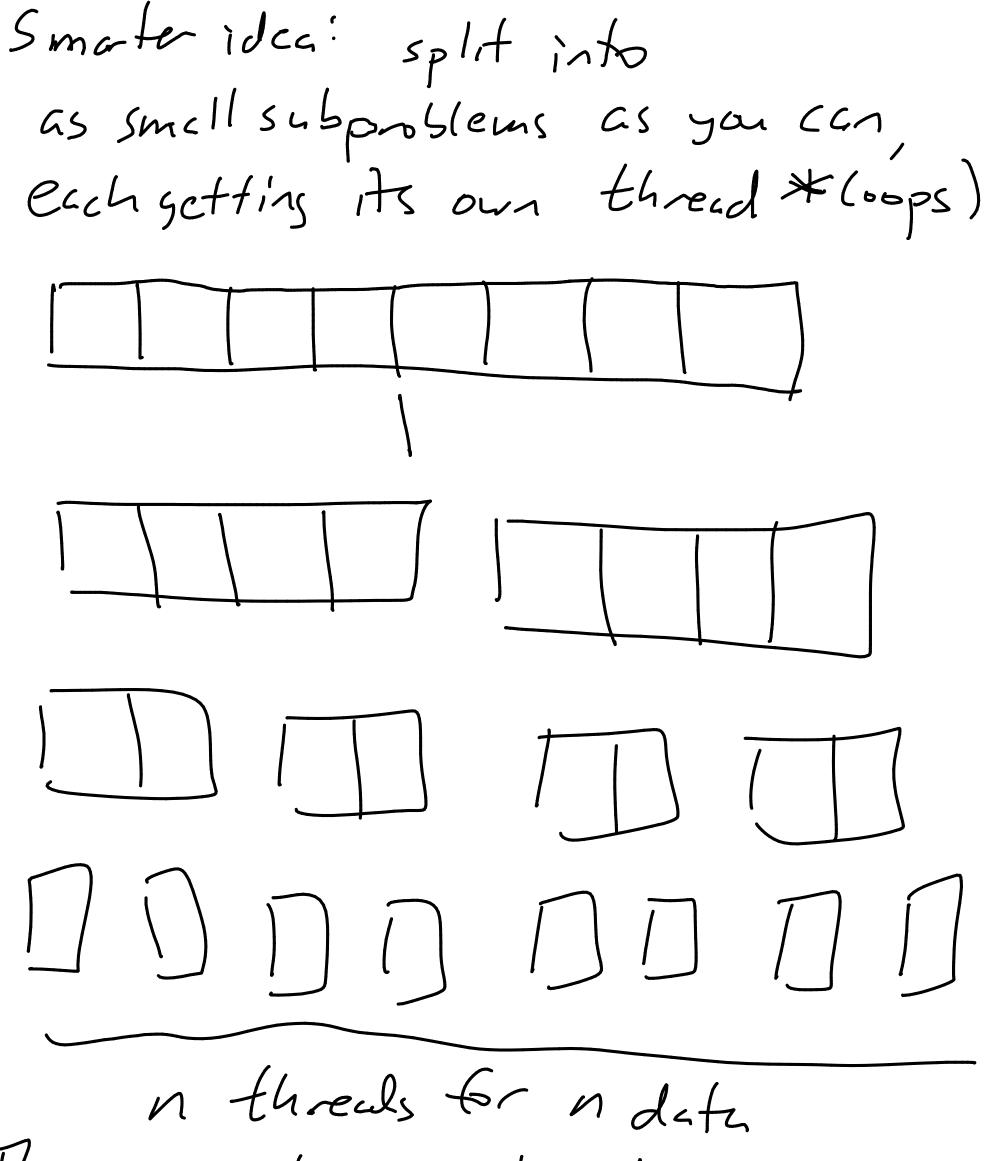
All computers in 308 have Docker -mounted COURSES -put the cs348 tolder -open in VS Code Forkljoin style in coding -and coding ul Kotlin corontines Suppose you have a big, ecsily parallelizable job (e.g. Sum all number), and you have, cores Obvious? Split work into 4 threads, do addition in each, then add up 4 results.

As a general principle this could be
As a general principle, this could be Problemetic:
- assumes I can got equally to all cores of all times and lots of work is left - compute might take over a core
Cores of all times much is left
- compute might take over a core
- splitting work equally may be hard
(test if numbers are prime, and data is sorted)
- Cores cre non asymmetric-some
are faster than others (slower
ae fasta thon others (slower Saves energy)
- the combine work (add up all
- the combine work (add up all results) is sequential
results add in partle!
add



Then assresche up when done

The issues:
- generating threads takes time.
At some level et detail, you're just
better off ul a sex soln than
overhed of creating more threads
Sez soln here
7 making threads at
DDDDlowlevel might be
slower) than
Typically use a cutoff
determined experimentally and ul
Wisdom to stop splitting

Because generated threads takes so muzh time, we get beneft ton a thread pool. a fixed number of threads that the PL (Kotlin) adds jobs to Kedding uses Javes "Fork Join" trunework to do this. Instead, we'll use Kotlin Corontines, which also use thread pools. Scope [As on aside, Kotling corontines also add structure to threads that varilla thread don't have ]

What is a coroutine! I play on word subroutines Term has been around for decades, and often applies just for Concurrent code More recently, it might also include running in parellel Los cllous for concurrent (pacifiel?)
work by aspects of program - Proglang feature lubreces threads are an OS (exture) - PL retains control ove; t