Real-RAM model of computation

"the mathematical model of how computers work"

random access I can access a random machine part of memory (with known location) in content time.

Ne "store" real time.

Quick Sort (A)

Pick a random pivot peA

Lerun Quick Sort on things & P in A

Rerun Quick Sort on things > P in A

return L || {p} || R

Inplace sorting: just run the sorting algo on the input itself whout creating aux. determentatives (other than  $\Theta(1)$  temp variables mayou)

EXERCISE: Pseudococle for implace quicksort

example: ehbc2345678 My pivot goal: prep for recursive calls 2 3 4 5 6 7 Cladeh f My pivot > pivot < pivot ehbblafcgi