2/1/23

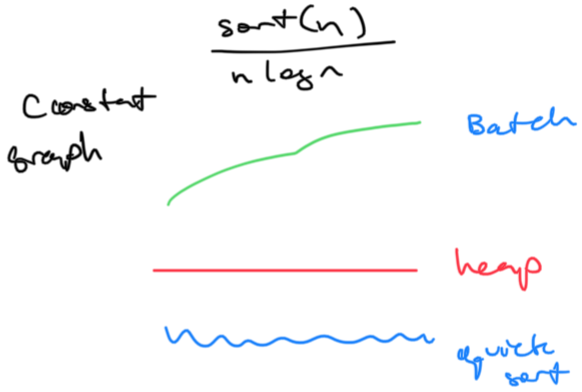
O(n) "is the order of"
generally ignore constants

- loop goes part way, then finishes it later, still n

Quick sort
  sorted = n^2
  unsorted = $n \log n$

Bubble sort
- if list sorted, then it is O(n)

merge sort has bigger constant



Memorizing
- compute stuff w/ info already computed
- time-space tradeoff
  - use time or use space to save resources

- PKS cryptography

NP complete problem
  - exponential time

$\log x$
x
$x \log x$
x^2
x^3
2^x
$x!$