

Sorting Algorithms

Data?

- Selection
- Insertion
- Bubble
- Heap
- Merge Sort
- Quicksort

2 sorted

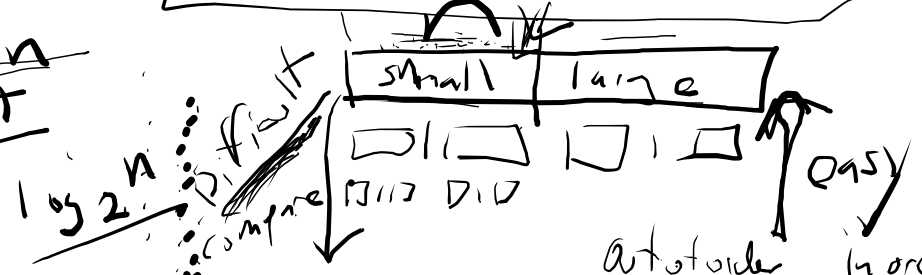
n
 n^2 X

$n \log n$



15

partition pivot



$\log_2 n$

Best Case

Median

even split
 $\rightarrow n \log n$

not ordered
reorder
worst case

pivot bad
lowest / highest
 $n \cdot n$ n^2

how to choose pivot
fast + quality

