CS180 - Sorping + trees Note Title Note Title
Note Title 11/2/2011
Announcement 3
- Program due Sat.
- Program due Sat. - Next HW out on Friday, due in I week
- Next Friday will be review session, exam the following Mon.
exam the following Mon.
- Lab tomorrow

D: Describe insertion, selection or werge sort.

Q2: Name 2 other sorting algorthms.

ga n² or nlan van Em deBoas

Smart Selection sort

Assume A[1.i] are sorted

take A[it1]

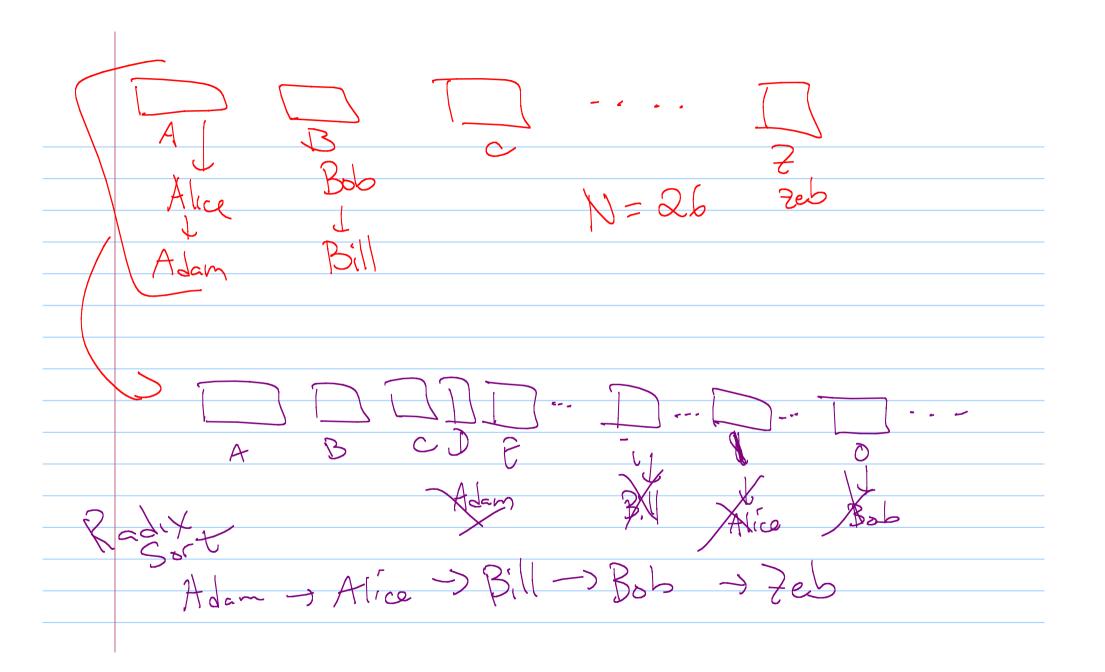
Find where it goes a binary search

Part it there O(i) in vectors

1 2 3 4 11 12 16 18 Merge Sort 1/2) Mergesort ($T(n) = O(n | \alpha_2 n) + IT(\frac{n}{2})$

A[n-1] list $\Rightarrow O(n+N)$

Alice Hdam 7 7eb Alice Adam Bob Bill Jeb



rachalites Expirimentally quicksort runs faster. Than merge on small inputs. Quicksort can be done "in place"
Merge sort has more parameter Programmer fine

rees y inherently linear. 100 Abraham 2-dinersions rechambe_ CSILO

Node in a tree

Object _data

Store children] 2 | Dinary tree

parent

Parent

Tree class: _root

CAPS

Binary Search Trees