CS180- Recap of our semester mouncements - Review session: Friday at 4pm in Linux labl (check webpage Thursday in case location changes) Final Monday at noon - Office hours: Wed. morning, Friday morning Data Structures Covered

-Stacks
- que ue
- vectors
- lists
- lists
- heaps
- heaps
- tree structures
- BST
- All trees
- truttman trees
- treeps
- hashing

Data Structures

Some data structures have limited
functionality, but as a result
are extremely efficient.

Ex. - stack a queue

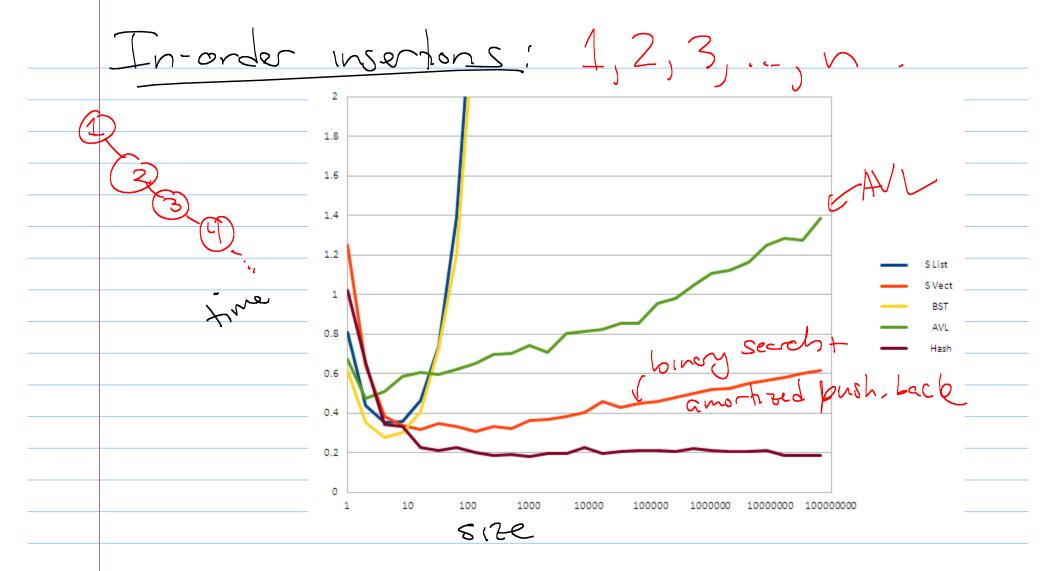
- graph representations
(space is speed)

"Full-featured" data structures More versatile data structures have trade-offs: to get something faster you sacking speed in another area. tx: vectors lists 0(1) - operator [:] -> o(n) O(n)-insert AVL trees: O(logn)

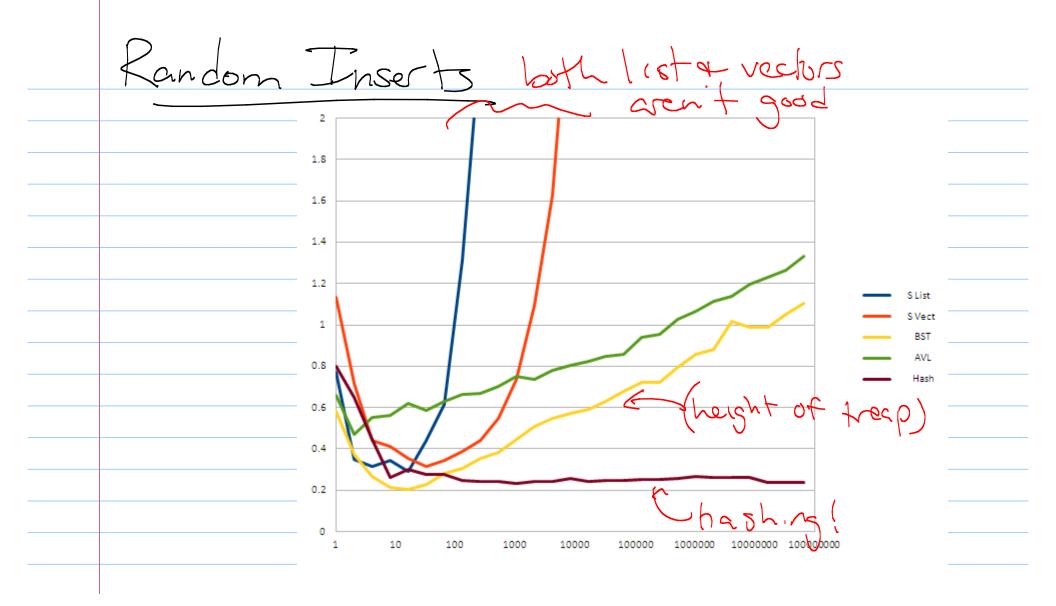
Kandomized or Expected Some work well in practice but have no theoretical guarantees Ex: worst case - has hing - treap - random priority

So which is best?

Ans: Depends!







e: hashing does lack extra
functionality so not - choice Questions: insert (Q, 2 unique