KEY POINTS

Same as a mamenanical set:

- « no duplicates
- · unordered
- " supports membership tery.
- > Like ways in a map w/o aux. values.
- => Typically implemented using a linked lift, so we need an iterator for traversal.
- => Has O(n) space comp.

of Generic Merging

a < b? That medid for 1 aux functions for ADT

For union, an ordered set can be produced by only continuing through B of b > a AND b = a.

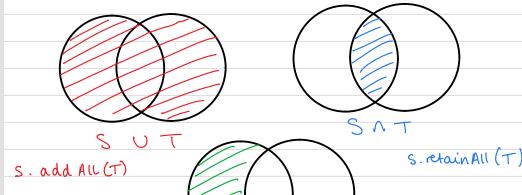
NAME/DATE/SUBJECT

Set ADT

NOTES

Mendsership terrs: ampring that checks of an element is part of a set.

Set operations recap:



S. remove All (T)

Basic ADT functions:

· add (e) · remove (e) · contains (e)

Conly if not present

A set is typically created using a limed list in canonical

· iterator

SUMMARY

A linked lift with no duplicates, and can be used with set operations. They also work with efficient membership letts. The generic merge operations take place in $O(n_0 + n_0)$ linear time - only of any-are O(1).