

CH-231-A

Algorithms and Data Structures

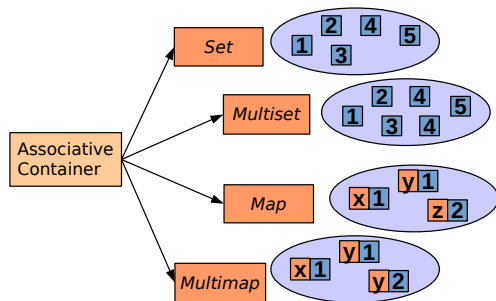
ADS

Lecture 3

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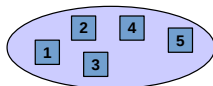
Spring 2024

Associative Containers



- ▶ Sorted collection (internally)
- ▶ Position of element depends on value (due to sorting criterion)
- ▶ Order of insertion irrelevant

Sets



- ▶ Collection of elements, in which elements are sorted according to their values
- ▶ Duplicates are **not** allowed
- ▶ Interface:
 - ▶ `set`, `insert`, `erase`, `clear`, `empty`, `size`, `find`, `count`
- ▶ `sets.cpp`
- ▶ When are two elements equal?
 - ▶ It is possible to specify a functor, to be used when comparing objects
 - ▶ `set_functor.cpp`