INTRODUCTION TO DATA STRUCTURES

Data structures contain and organize data

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DATA STRUCTURES

- Containers
  - Contain other data and allow it to be manipulated with one name
  - Data structures are like a basket
- Organizers
  - Organize data for efficient access
  - Characterized by the supported operations: insert, search, remove, visit
- "Data Structures and Algorithms" (CS 2420)

TYPE SPECIFIERS

- The name of a programmer-created data structure is a data type

- Data types are used to define variables or objects

- Examples:

  - int counter;

  - struct foo { . . . };

  - foo my_foo;

  - class bar;

  - bar my_bar;