CSE 3010 – Data Structures & Algorithms Lecture #2

What will be covered today

- What are abstract data types
- What are data structures
 - Operations on data structures
 - Algorithms for data structures
- What does software development comprise of
- Different types of data structures

Definitions

- Data type
 - Set of values and operations defined on them
- Abstract data type
 - Mathematical model with operations defined
- Data structure
 - Representation of abstract data types
- Algorithm
 - Step-by-step procedure or method for solving a problem in a finite number of steps
- Software development
 - Data structures + algorithms
 [Refer class notes for examples and more detailed notes]