

CS 234 course note

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1 User

Overall

1. abstract data type(ADT)
constsit of a type or types of data and a set of operations
2. Terms
User: user the operation, but don't know detail
Provider: create the ADT, with a algorithm, but don't know how to use

Case study

1. Major type

- General
Able to determine if they are equal
- Orderable data
Able to determin if they are equal and/or oreder
- Digital data
able to extract information from data iterns

2. Defintions

- Precodition
is a requirement that must be satisfied for an operation to work
User's responsibility
- Postcondition
a guarantee of the outcome of an operation being executed
Provider's resbonsibility

ADTs

1. Multiset
 - Allow multiple copies of data item
 - General
 - Create, isin, Add, delete

Planning

1. Pseudocode
is a code-like way of writing an algorithm that can be easily analyzed and also easily translated into code
2. an algorithm sketch
is a description of an algorithm using sentences or point form, relying on previous-discussed concepts to allow for it