

Abstract Data Type Example

Here are the examples of abstract data types

List is Java's list interface. List is mutable. List is also an interface, which means that other classes provide the actual implementation of the data type. These classes include ArrayList and LinkedList.

-creators: ArrayList and LinkedList constructors, Collections.singletonList

-producers: Collections.unmodifiableList

-observers: size, get

-mutators: add, remove, addAll, Collections.sort

Although not complete, this taxonomy provides some helpful vocabulary. For example, an operation that is both a producer and a mutator may exist in complex data types. Some people exclusively use the term "producer" to describe processes without mutation.