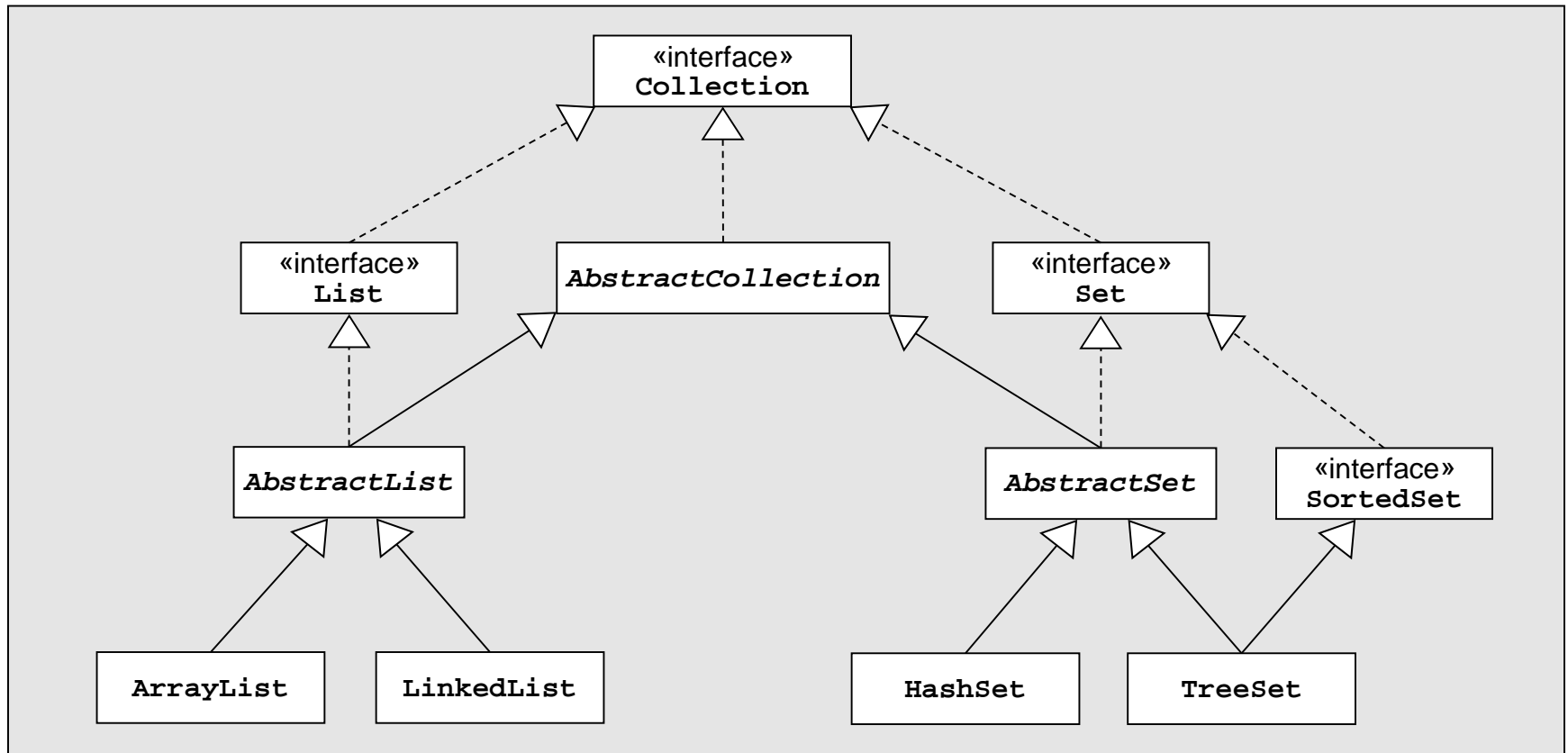


The Collection Hierarchy

The following diagram shows the portion of the Java Collections Framework that implements the **Collection** interface. The dotted lines specify that a class implements a particular interface.



Useful Methods of Collection

- Classes that implement the `Collection` interface, such as `ArrayList` or the key set of a `HashMap`, provide the following useful methods:

boolean add(<T> value)

Adds a specified value to the collection. Returns `true` if the collection changes.

boolean remove(<T> element)

Removes the first instance of `element`, if it appears; returns `true` if a match is found.

void clear()

Removes all elements from the collection.

int size()

Returns the number of elements in the collection.

boolean contains(<T> value)

Returns `true` if the collection contains the specified value.

boolean isEmpty()

Returns `true` if the collection contains no elements.

Iterator iterator()

Returns an iterator that allows the client to step through the values in the collection.