16.13 Abstract Implementations

The collections framework provides various abstract implementations of `Collection` interfaces from which you can quickly "flesh out" complete customized implementations. These abstract implementations include a thin `Collection` implementation called an `AbstractCollection`, a `List` implementation that allows *array-like access* to its elements called an `AbstractList`, a `Map` implementation called an `AbstractMap`, a `List` implementation that allows *sequential access* (from beginning to end) to its elements called an `AbstractSequentialList`, a `Set` implementation called an `AbstractSet` and a `Queue` implementation called `AbstractQueue`. You can learn more about these classes at `http://docs.oracle.com/javase/8/docs/api/java/util/p summary.html`. To write a *custom* implementation, you can extend the abstract implementation that best meets your needs, implement each of the class's `abstract` methods and override the class's concrete methods as necessary.