

Exercises:

1. What is the difference between an `interface` and an `abstract class`? When would you prefer one over the other?
2. What is the purpose of the `interface CharSequence`? Also provide some tests to show how it can be used!
3. Program a UDT, that implements `AutoClosable`. – Show the functionality with a unit test.
4. In an earlier exercise, you've programed the UDT `Fraction`. Change `Fraction`, so that it implements `Comparable`. – Show how `Fraction` instances can be used with `Arrays.sort()` in a unit test.
5. The JDK also offers the `interface Comparator`. – What is the idea behind this `interface`? In which scenarios must it be used? – Show at least one application/own implementation of `Comparator` in a unit test. Tip: You can use an implementation of `Comparator` to use `Arrays.sort()` to sort `Fractions` in reversed order.

Remarks:

- Hence, you can use `Scanner` instances with the `try-with resource` idiom.
- As always.