

1 Algorithmus

Definition: Endliches, deterministisches und allgemeines Verfahren unter Verwendung ausführbarer, elementarer Schritte.

2 Input und Output

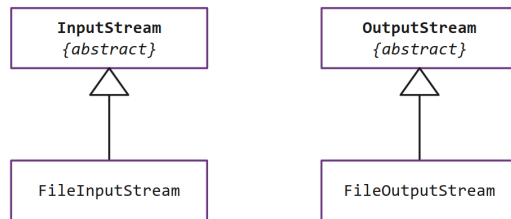


Abbildung 1: Klassenhierarchie von Input und Output

2.1 Input

2.1.1 File-Reader

```
try (var reader = new
FileReader("quotes.txt")) {
    int value = reader.read();
    while (value ≥ 0) {
        char c = (char) value;
        // use character
        value = reader.read();
    }
}
```

```
new FileReader(f);
// ist äquivalent zu
new InputStreamReader(new
FileInputStream(f));
```

2.1.2 Zeilenweises Lesen

```
try (var reader = new BufferedReader(new
FileReader("quotes.txt")) {
    String line = reader.readLine();
    while (line != null) {
        System.out.println(line);
        line = reader.readLine();
    }
}
```

Info: FileReader liest einzelne Zeichen, BufferedReader liest ganze Zeilen.

2.2 Output

2.2.1 File-Writer

```
try (var writer = new
FileWriter("test.txt", true)) {
    writer.write("Hello!");
    writer.write("\n");
}
```