

08

Os 2 códigos nesta folha produzem o mesmo resultado.

Você consegue identificar a linguagem usada? Com quais linguagens ela se parece?

O que fazem estes códigos?

Quais as semelhanças e diferenças entre eles?

```
import java.util.ArrayList;
import java.util.Comparator;
import java.util.List;

// Define a Person class with name and age fields
class Person {
    String name;
    int age;

    Person(String name, int age) {
        this.name = name;
        this.age = age;
    }

    @Override
    public String toString() {
        return "(" + name + ", " + age + ")";
    }
}

public class SortPeople {
    public static void main(String[] args) {

        List<Person> people = new ArrayList<>();
        people.add(new Person("John", 25));
        people.add(new Person("Jane", 30));
        people.add(new Person("Doe", 22));

        people.sort(Comparator.comparingInt(person -> person.age));

        for (Person person : people) {
            System.out.println(person);
        }
    }
}
```

```
import java.util.*;

public class SortPeople {
    public static void main(String[] args) {
        List<Person> people = Arrays.asList(
            new Person("John", 25),
            new Person("Jane", 30),
            new Person("Doe", 22)
        );

        people.stream()
            .sorted(Comparator.comparingInt(p -> p.age))
            .forEach(System.out::println);
    }

    static class Person {
        String name;
        int age;

        Person(String name, int age) {
            this.name = name;
            this.age = age;
        }

        @Override
        public String toString() {
            return "(" + name + ", " + age + ")";
        }
    }
}
```