Lambda Expressions

Implement a Comparator for a Person class using a lambda expression, and sort a list of Person objects by their age..

```
package Day19;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
public class Task4 {
    public static void main(String[] args) {
        // Create a list of Person objects
        List<Person> people = new ArrayList<>();
        people.add(new Person("Alice", 30));
        people.add(new Person("Bob", 25));
        people.add(new Person("Charlie", 35));
        people.add(new Person("David", 28));
        // Print the list before sorting
        System.out.println("Before sorting:");
        for (Person person : people) {
            System.out.println(person);
        // Sort the list by age using a lambda expression
        Collections.sort(people, (p1, p2) -> Integer.compare(p1.getAge(), p2.getAge()));
        // Print the list after sorting
        System.out.println("\nAfter sorting:");
        for (Person person : people) {
            System.out.println(person);
    }
}
```

```
🗓 Task2.java 🗓 Task3.java 🗓 Example.java 🗐 Task4.java 🖾 🔑 Person.java 🗓 NQueensProbl...
  ☑ Task1.java
      1 package Day19;
      3⊝ import java.util.ArrayList;
     4 import java.util.Collections;
      5 import java.util.List;
      7 public class Task4 {
                       public static void main(String[] args) {
                                   // Create a list of Person objects
                                   List<Person> people = new ArrayList<>();
   10
                                   people.add(new Person("Alice", 30));
people.add(new Person("Bob", 25));
   11
   12
                                   people.add(new Person("Charlie", 35));
   13
                                   people.add(new Person("David", 28));
    15
                                   // Print the list before sorting
    16
                                   System.out.println("Before sorting:");
   17
   18
                                   for (Person person : people) {
    19
                                              System.out.println(person);
    20
   22
                                  // Sort the list by age using a lambda expression
   23
24
                                   Collections.sort(people, (p1, p2) -> Integer.compare(p1.getAge(), p2.getAge()));
    25
                                   // Print the list after sorting
    26
                                   System.out.println("\nAfter sorting:");
   27
                                   for (Person person : people) {
    28
                                              System.out.println(person);
   29
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 <terminated> Task4 (1) [Java Application] C:\Users\Nikita\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\daggerightarrow\d
 Person{name='Charlie', age=35}
 Person{name='David', age=28}
 After sorting:
Person{name='Bob', age=25}
Person{name='David', age=28}
Person{name='Alice', age=30}
Person{name='Charlie', age=35}
```