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Ce se afiseaza la rularea codului urmator?

// Person.java

public class Person {  
 String name;  
 int age;  
  
 Person(String name, int age) {  
 this.name = name;  
 this.age = age;  
 }  
  
 @Override  
 public String toString() {  
 return name;  
 }  
}

///Main.java

import java.util.Arrays;  
import java.util.List;  
import java.util.stream.Collectors;  
  
public class Main {  
  
 public static void main(String[] args) {  
  
 List<Person> persons = Arrays.*asList*(  
 new Person("Max", 17),  
 new Person("Peter", 23),  
 new Person("Pamela", 23),  
 new Person("David", 12));  
 String phrase = persons  
 .stream()  
 .filter(p -> !(p.age >= 18))  
 .map(p -> p.name)  
 .collect(Collectors.*joining*(" In Germany ", " and ", " are of legal age."));  
  
 System.*out*.println(phrase);  
 }  
}

Variante de raspuns:

1. In Germany Max and Peter and Pamela are of legal age.
2. Syntax error
3. and Max In Germany David are of legal age.
4. and Max In Germany Peter In Germany Pamela are of legal age.

Justificare raspuns:

Se construieste o lista de persoane apeland constructorul din clasa Person dupa care se fac operatii pe stream (.stream()) filtrandu-se din lista persoanele cu varsta mai mica decat 18(.filter(p->!(p >= 18))), se colecteaza numele acestora cu functia map si apoi se foloseste functia collect pentru a se transforma in string. Parametrii functiei joining sunt (delimitator, prefix, suffix), de aceea primul cuvant din rezultat este “and”, stringul care leaga rezultatele este “In Germany”, iar la final este stringul “are of legal age”

Referinte web:

<https://docs.oracle.com/javase/8/docs/api/java/util/stream/Collectors.html>

Dificultate: Easy-Medium