

Static members

→

Modifying code

Hard

5 minutes

5251

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Here's a correct code that generates ids for objects of the class `Person` using a static field:

```
1 public class Test {
2
3     public static void main(String args[]) {
4
5         Person person = new Person("R. Johnson");
6
7         System.out.println(person.getNextId()); // (1)
8     }
9 }
10
11
12 class Person {
13
14
15     private static long nextId = 1;
16
17
18     long id;
19
20     String name;
21
22
23     public Person(String name) {
24
25         this.name = name; // (2)
26
27         this.id = nextId;
28
29         nextId++; // (3)
30     }
31
32
33     public long getNextId() { // (4)
34
35         return nextId;
36
37     }
38
39 }
```

Select all code modifications after which the code will remain correct from the point of view of the Java compiler.

Report a typo

Select one or more options from the list

- ☒ removing the keyword `this` in (2) when accessing the field: `this.name`;
- ☒ adding the keyword `static` in the method declaration (4)
- ☒ adding the keyword `this` in (3) when accessing the field: `this.nextId++`;
- ☒ changing `person` to `Person` in (1) and adding the keyword `static` in the method declaration (4)

Correct.

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