



6000

Score: 15.000 (=100.0%)

1 😊

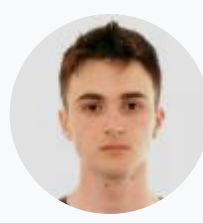
2 😊

3 😊

4 😊

5 😊

6 😊



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3 days

19:05:30

Done

Score: 2.500 (=100.0%)

Id: 41287

Potrebno je napisati klasu `FactorialIterator` koja implementirata sučelje `java.util.Iterator<Integer>`. Klasi se u konstruktoru prosljeđuje koliko brojeva će generirati. Ako se pošalje negativan broj potrebno je baciti iznimku.

Klasa ima vidljivost postavljenu na *package private*.

Primjer korištenja:

```
Iterator<Integer> iterator = new FactorialIterator(10);
while(iterator.hasNext())
    System.out.println(iterator.next());
```

Očekivani ispis:

```
1
1
2
6
24
120
720
5040
40320
362880
```

Student's answer:

```
1 import java.util.Iterator;
2 import java.util.NoSuchElementException;
3
4 class FactorialIterator implements Iterator<Integer> {
5
6     private int toGenerate;
7     private int generated = 0;
8     private int last = 1, next;
9
10    public FactorialIterator(int toGenerate) {
11        if (toGenerate < 0) {
12            throw new IllegalArgumentException();
13        }
14        this.toGenerate = toGenerate;
15    }
16
17    @Override
18    public boolean hasNext() {
19        return generated < toGenerate;
20    }
21
22    @Override
23    public Integer next() {
24        if(hasNext()) {
25            generated++;
26            int temp = last;
27            next = last * generated;
28            last = next;
29            return temp;
30        }
31        else{
32            throw new NoSuchElementException();
33        }
34    }
35 }
```

Correct answer:

```
1 This test does not have "show solutions" option enabled.
```

Hint: Correct. Well done!

Exam results obtained during submission evaluation:

#	stdin	stdout	expected	stderr	percentage	hint	mode	correct?
1	functionality	OK	OK	EdgarLibrary v0.11.1	100.00	Correct. Well done!	check elements order : false, case sensitive : false, ignore whitespace : true	true
2	edge	OK	OK	EdgarLibrary v0.11.1	40.00	Correct. Well done!	check elements order : false, case sensitive : true, ignore whitespace : true	true

Student's result

Correct result

Rerun student's code