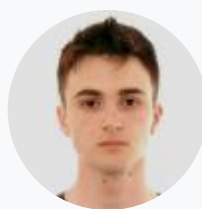




7000

Score: 17.500 (=100.0%)



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4 days

23:51:55

Done

Score: 2.500 (=100.0%)

Id: 42192

Potrebno je napraviti klasu `JavaProjectFileVisitor` koja nasljeđuje `SimpleFileVisitor<Path>`. Klasa mora imati navedenu public metodu:

```
public Map<String, Long> getProjectFileInfo()
```

Ključevi u mapi su ekstenzije datoteka (npr. ".txt", ".java", ".class", ...) dok su vrijednosti ukupne veličine datoteka.

Pokretanjem koda nad direktorijem koji je prikazan u nastavku očekujemo prikazane rezultate:

```
JavaProjectFileVisitor visitor = new JavaProjectFileVisitor();
File f = new File("folder1");
Files.walkFileTree(f.toPath(), visitor);
Map<String, Long> map = visitor.getProjectFileInfo();
for(String key : map.keySet())
    System.out.println("Key: " + key + " - " + map.get(key));
```

Ispis:

```
Key: .txt - 110
Key: .java - 26
```

Izgled direktorija:

```
+--folder1
|   +--a.txt (10 B)
|   +--folder2
|       |   +--b1.java (11 B)
|       |   +--b2.java (15 B)
|       |   +--b3.txt (100 B)
|       +--folder3
```

Napomena: Klasu `JavaProjectFileVisitor` napisati bez modifikatora vidljivosti i kopirati u prostor za rješenje bez navođenja paketa kojem pripada. Na vrhu možete dodavati *importe* iz standardnih Javinih biblioteka. Importe na klase iz predavanja, auditornih i pripreme obrisati prije predaje rješenja. Uočite da programski kod koji predajete **ne smije ništa ispisivati**, nego samo vraća tražene podatke.

Student's answer:

```
1 import java.io.IOException;
2 import java.nio.file.*;
3 import java.util.*;
4
5 class JavaProjectFileVisitor extends SimpleFileVisitor<Path> {
6
7     private Map<String, Long> map = new HashMap<>();
8
9     public Map<String, Long> getProjectFileInfo() {
10         return map;
11     }
12
13     @Override
14     public FileVisitResult visitFile(Path file, BasicFileAttributes attrs) throws
15         String filename = file.getFileName().toString();
16         int index = filename.lastIndexOf(".");
17         if (index != -1) {
18             String extension = filename.substring(index);
19             Long size = map.getOrDefault(extension, (long)0);
20             map.put(extension, size + attrs.size());
21         }
22         return FileVisitResult.CONTINUE;
23     }
24 }
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
```

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	instanceof	OK	OK	EdgarLibrary v0.11.1	25.00	Correct. Well done!	check elements order : false, case sensitive : false, ignore whitespace : true	true
2	projectFileInfo	OK	OK	EdgarLibrary v0.11.1	100.00	Correct. Well done!	check elements order : false, case sensitive : true, ignore whitespace : true	true

Student's result

Correct result

Rerun student's code