

File Edit Selection View Go Run Terminal Help

java pro

Explorer

OPEN EDITORS

LINK SHORTENER.JAVA

OUTLINE

LinkShortener

TIMELINE

SONARLINT ISSUE LOCATIONS

JAVA PROJECTS

LinkShortener.java > ...

```
1 import java.util.HashMap;
2 import java.util.Map;
3 import java.util.Random;
4
5 public class LinkShortener {
6     private Map<String, String> shortToLongLinks = new HashMap<>();
7     private Map<String, String> longToShortLinks = new HashMap<>();
8     private static final String CHARACTERS = "abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789";
9     private static final int SHORT_LINK_LENGTH = 6;
10
11     public String shortenLink(String longUrl) {
12         if (longToShortLinks.containsKey(longUrl)) {
13             return longToShortLinks.get(longUrl);
14         } else {
15             String shortUrl = generateShortLink();
16             shortToLongLinks.put(shortUrl, longUrl);
17             longToShortLinks.put(longUrl, shortUrl);
18             return shortUrl;
19         }
20     }
21
22     public String expandLink(String shortUrl) {
23         if (shortToLongLinks.containsKey(shortUrl)) {
24             return shortToLongLinks.get(shortUrl);
25         } else {
26             return "Short link not found.";
27         }
28     }
29
30     private String generateShortLink() {
31         StringBuilder sb = new StringBuilder();
32         Random random = new Random();
33         for (int i = 0; i < SHORT_LINK_LENGTH; i++) {
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

COMMENTS

```
PS C:\Users\galis\OneDrive\Desktop\java pro> c:: cd 'c:\Users\galis\OneDrive\Desktop\java pro'; & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.8-hotspot\bin\java.exe' '-XX:+ShowC
sInExceptionMessages' '-cp' 'C:\Users\galis\AppData\Roaming\Code\User\workspaceStorage\dbeef6b183d2ca349e13dfb5b7c59\redhat.java\jdt_ws\java_pro_a0584b7b\bin' 'LinkShortener'
Shortened Link: 34Lap6
Expanded Link: https://www.example.com
PS C:\Users\galis\OneDrive\Desktop\java pro> javac c:: cd 'c:\Users\galis\OneDrive\Desktop\java pro'; & 'C:\Program Files\Eclipse Adoptium\jdk-17.0\bin\java.exe' '-XX:+ShowC
e\workspaceStorage\dbeef6b183d2ca349e13dfb5b7c59\redhat.java\jdt_ws\java_pro_a0584b7b\bin' 'LinkShortener'
error: invalid flag: c:
Usage: javac <options> <source files>
use --help for a list of possible options
Shortened Link: HMUL4P
Expanded Link: https://www.example.com
PS C:\Users\galis\OneDrive\Desktop\java pro>
```

Ln 52, Col 1

Spaces: 4

UTF-8

CRLF

{ } Java

tabnine starter

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java pro

EXPLORER

OPEN EDITORS

- Untitled-1
- Untitled-2
- TextAdventureGame.java 9+
- MicroProfile Overview
- LinkShortener.java 4
- SimpleCalculator.java

JAVA PRO

- .vscode
- Enter.java
- ExpenseTracker.java 2
- game.java 3
- LinkShortener.java 4
- NumberGuessingGame.java
- SimpleCalculator.java
- TextAdventureGame.class
- TextAdventureGame.java 9+

OUTLINE

- LinkShortener

LinkShortener.java

```
34 sb.append(CHARACTERS.charAt(random.nextInt(CHARACTERS.length())));
35
36 }
37
38 return sb.toString();
39 }
40
41 Run | Debug
42 public static void main(String[] args) {
43     LinkShortener linkShortener = new LinkShortener();
44
45     String longUrl = "https://www.example.com";
46     String shortUrl = linkShortener.shortenLink(longUrl);
47     System.out.println("Shortened Link: " + shortUrl);
48
49     String expandedUrl = linkShortener.expandLink(shortUrl);
50     System.out.println("Expanded Link: " + expandedUrl);
51 }
52
```

PROBLEMS 23 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\galis\OneDrive\Desktop\java pro> c:: cd 'c:\Users\galis\OneDrive\Desktop\java pro'; & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.8.101-hotspot\bin\java.exe' '-XX:+ShowC
sInExceptionMessages' '-cp' 'C:\Users\galis\AppData\Roaming\Code\User\workspaceStorage\dbee6ff6ba183d2ca349e13dfb5b7c59\redhat.java\jdt_ws\java_pro_a0584b7b\bin' 'LinkShortener'
Shortened Link: 34Lap6
Expanded Link: https://www.example.com
PS C:\Users\galis\OneDrive\Desktop\java pro> javac c:: cd 'c:\Users\galis\OneDrive\Desktop\java pro'; & 'C:\Program Files\Eclipse Adoptium\jdk-17.e\User\workspaceStorage\dbee6ff6ba18
e\User\workspaceStorage\dbee6ff6ba183d2ca349e13dfb5b7c59\redhat.java\jdt_ws\java_pro_a0584b7b\bin' 'LinkShortener'
error: invalid flag: c:
Usage: javac <options> <source files>
use --help for a list of possible options
Shortened Link: HMUL4P
Expanded Link: https://www.example.com
PS C:\Users\galis\OneDrive\Desktop\java pro>
```

5 18 0 SonarLint focus: overall code

Ln 52, Col 1 Spaces: 4 UTF-8 CRLF {} Java tabnine starter