AlgoExpert Quad Layout Java 12px Sublime Monok

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1
```

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```
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 1
 2
 3 ▼ import java.util.*;
 4
     import java.util.stream.Collectors;
 5
 6 ▼ class Program {
       // O(n) time | O(n) space - where n is the length of the path
 7
      public static String shortenPath(String path) {
         boolean startsWithPath = path.charAt(0) == '/';
 9
         String[] tokensArr = path.split("/");
10
11
         List<String> tokensList = Arrays.asList(tokensArr);
12
         List<String> filteredTokens = tokensList.stream().filter(token -> isImportantToken(token)).collect(Collectors.toList());
         List<String> stack = new ArrayList<String>();
13
         \quad \textbf{if} \ (\textbf{startsWithPath}) \ \textbf{stack.add}("");\\
14
         for (String token : filteredTokens) {
15 ▼
16 ▼
          if (token.equals("..")) {
             if (stack.size() == 0 || stack.get(stack.size() - 1).equals("..")) {
17 ▼
               stack.add(token);
18
             } else if (!stack.get(stack.size() - 1).equals("")) {
19 ▼
20
               stack.remove(stack.size() - 1);
21
           } else {
22 ▼
             stack.add(token);
23
24
           }
25
26
         if (stack.size() == 1 && stack.get(0).equals("")) return "/";
27
         return String.join("/", stack);
28
29
30
31 ▼
       public static boolean isImportantToken(String token) {
         return token.length() > 0 && !token.equals(".");
32
33
34
```