AlgoExpert Quad Layout Go 12px Sublime Monok

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

```
Solution 1
```

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```
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 2
 3
     package main
 5
     import "strings"
 6
 7
     // O(n) time | O(n) space - where n is the length of the path
 8 ▼ func ShortenPath(path string) string {
9
       startsWithSlash := path[0] == '/'
       splits := strings.Split(path, "/")
10
       tokens := []string{}
11
12 ▼ for _, token := range splits {
       if isImportantToken(token) {
13 ▼
          tokens = append(tokens, token)
14
15
        }
16
       }
17
       stack := []string{}
18
       if startsWithSlash {
19 ▼
        stack = append(stack, "")
20
21
22 \bullet for _, token := range tokens {
23 ▼
       if token == ".." {
         if len(stack) == 0 || stack[len(stack)-1] == ".." {
            stack = append(stack, token)
25
          } else if stack[len(stack)-1] != "" {
26 ▼
27
             stack = stack[:len(stack)-1]
         }
28
        } else {
29 ▼
          stack = append(stack, token)
30
31
32
33
      if len(stack) == 1 && stack[0] == "" {
34 ▼
        return "/"
35
36
37
       return strings.Join(stack, "/")
38
39
40 ▼ func isImportantToken(token string) bool {
      return len(token) > 0 && token != "."
41
42
```