AlgoExpert Quad Layout JavaScript 12px Sublime Monok

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

30

```
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 1
 2
     // O(n) time \mid O(n) space - where n is the length of the path
 3
 4 ▼ function shortenPath(path) {
      const startsWithSlash = path[0] === '/';
 5
       const tokens = path.split('/').filter(isImportantToken);
 6
 7
       const stack = [];
       if (startsWithSlash) stack.push('');
9 ▼ for (const token of tokens) {
       if (token === '..') {
10 🔻
          if (stack.length === 0 || stack[stack.length - 1] === '..') {
11 ▼
12
            stack.push(token);
          } else if (stack[stack.length - 1] !== '') {
13 ▼
14
           stack.pop();
15
         }
        } else {
          stack.push(token);
17
18
19
20
       if (stack.length === 1 && stack[0] === '') return '/';
21
       return stack.join('/');
22
23
24
25 ▼ function isImportantToken(token) {
       return token.length > 0 && token !== '.';
26
27
28
29
     exports.shortenPath = shortenPath;
```