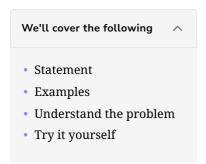
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Design File System

Try to solve the Design File System problem.



Statement

Design a file system that allows us to create new paths and associate them with different values. A path has one or more concatenated strings of the form / followed by one or more lowercase English letters. For example, valid paths include "/educative" and "/educative/problems", while an empty string "" and "/" are not valid paths.

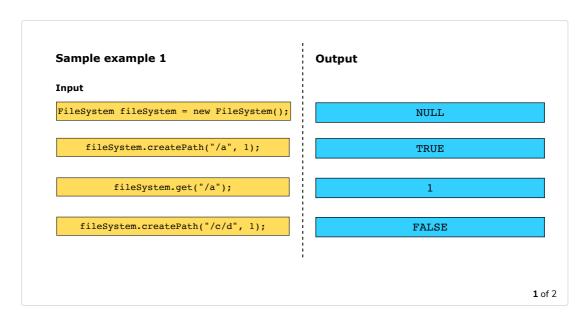
Implement the FileSystem class with the following functions:

- bool createPath(string path, int value): This function creates a new path and associates a value to it if possible and returns TRUE. It returns FALSE if the path already exists or if its parent path doesn't exist.
- **int get(string path)**: This function returns the value associated with the path or returns -1 if the path doesn't exist.

Constraints:

- The total number of calls to the two functions are $\leq 10^4$.
- $2 \leq \mathsf{path.length} \leq 100$
- $1 \le \text{value} \le 10^9$

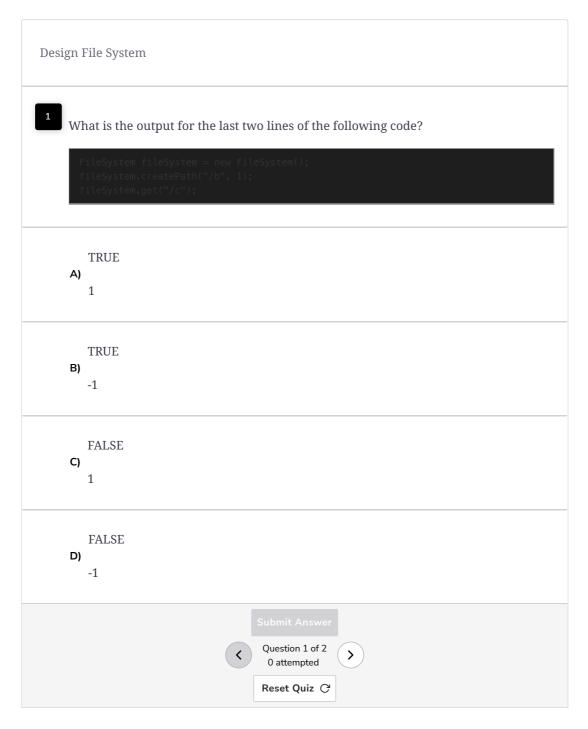
Examples





Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



Try it yourself

Implement your solution in the following coding playground:

```
usercode > FileSystem.java

1 import java.util.*;
2 class FileSystem {
3
4
5 public FileSystem() {
6    // Write your code here
```

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```
// WITE your code here
    7
    8
    9
           public boolean createPath(String path, int value) {
   10
               // Write your code here
   11
               return true;
   12
   13
           public int get(String path) {
   14
   18 }
   19
   20
                                                                      Powered by Al
                                                                                               Submit
 Test Cases
              Results
    Case 1
              Case 2
                         Case 3
 Input #1
   ["FileSystem","createPath","get"]
  Input #2
   [[],["/x",1],["/x"]]
                                             Design File System
                                              ∵; Hide Hint
  You might want to go over the Custom Data Structures pattern again.
 ← Back
                                                                                                Next →
Design In-Memory Fil...
                                                                                              Asteroid Collision
                                                                                       ✓ Mark as Completed
```

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