

Description

Solution

Discuss (714)

Submissions

Given an **absolute path** for a file (Unix-style), simplify it. Or in other words, convert it to the **canonical path**.

In a UNIX-style file system, a period `.` refers to the current directory. Furthermore, a double period `..` moves the directory up a level.

Note that the returned canonical path must always begin with a slash `/`, and there must be only a single slash `/` between two directory names. The last directory name (if it exists) **must not** end with a trailing `/`. Also, the canonical path must be the **shortest** string representing the absolute path.

Example 1:

Input: `"/home/"`
Output: `"/home"`
Explanation: Note that there is no trailing slash after the last directory name.

Example 2:

Input: `"/../"`
Output: `"/"`
Explanation: Going one level up from the root directory is a no-op, as the root level is the highest level you can go.

Example 3:

Input: `"/home//foo/"`
Output: `"/home/foo"`
Explanation: In the canonical path, multiple consecutive slashes are replaced by a single one.

Example 4:

Input: `"/a/./b/../../../../c/"`
Output: `"/c"`

Example 3:

Input: `"/home//foo/"`

Output: `"/home/foo"`

Explanation: In the canonical path, multiple consecutive slashes are replaced by a single one.

Example 4:

Input: `"/a/./b/../../../../c/"`

Output: `"/c"`

Example 5:

Input: `"/a/../../../../b../c//./"`

Output: `"/c"`

Example 6:

Input: `"/a//b////c/d//././/.."`

Output: `"/a/b/c"`

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Seen this question in a real interview before?

Yes

No

Contributor

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