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71. Simplify Path

Medium   🏷 Topics   🏢 Companies

Given a string `path`, which is an **absolute path** (starting with a slash `'/'`) to a file or directory in a Unix-style file system, convert it to the s

In a Unix-style file system, a period `'.'` refers to the current directory, a double period `'..'` refers to the directory up a level, and any mu

The **canonical path** should have the following format:

- The path starts with a single slash `'/'`.

- Any two directories are separated by a single slash `'/'`.

- The path does not end with a trailing `'/'`.

- The path only contains the directories on the path from the root directory to the target file or directory (i.e., no period `'.'` or double pe

Return *the simplified **canonical path***.

Example 1:

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

Example 2:

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

Example 3:

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

Constraints:

- `1 <= path.length <= 3000`

- `path` consists of English letters, digits, period `'.'`, slash `'/'` or `'_'`.

- `path` is a valid absolute Unix path.

Seen this question in a real interview before?   1/4

Yes   No

Accepted **691.7K**   Submissions **1.7M**   Acceptance Rate **41.8%**

🏷 Topics

🏢 Companies

💬 Discussion (85)