Simplify Path

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Question | Solution

Total Accepted: **37783** Total Submissions: **185717** Difficulty: **Medium**

Given an absolute path for a file (Unix-style), simplify it.

For example,

path = `"/home/"`, => `"/home"`

path = `"/a/./b/../../c/"`, => `"/c"`

click to show corner cases.

Corner Cases:

- Did you consider the case where **path** = `"/../"`?

  In this case, you should return `"/"`.

- Another corner case is the path might contain multiple slashes `'/'` together, such as `"/home//foo/"`.

  In this case, you should ignore redundant slashes and return `"/home/foo"`.

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Have you met this question in a real interview? Yes No

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Python

```
class Solution(object):
    def simplifyPath(self, path):
        """
        :type path: str
        :rtype: str
        """
        length = len(path)
        newpath=['' for i in range(length)]
        top=0;i=0
        while i<length:
            while i<length and path[i]=='/':i+=1
            if i>=length:break
            if path[i]=='.' and (i+1>=length or path[i+1]=='/'):i+=1
```

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```
            elif path[i]=='.' and path[i+1]=='.' and (i+2>=length or path[i+2
                i+=2
                top=top-1 if top>0 else 0
                while top>0 and newpath[top]!='/':top-=1
            else:
                newpath[top]='/'
                top+=1
                while i<length and path[i]!='/':
                    newpath[top]=path[i]
                    top+=1
                    i+=1
        if top==0:return "/"
```

Custom Testcase

Run Code | Submit Solution

Submission Result: Accepted (/submissions/detail/42340986/)

More Details ❯ (/submissions/detail/42340986/)

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(M) Binary Tree Inorder Traversal (/problems/binary-tree-inorder-traversal/)
(H) Minimum Window Substring (/problems/minimum-window-substring/)

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