

UNIX Path Simplification

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② Time limit: 1.0s

■ Memory limit: 256M

✓ Allowed languages

Problem Statement

You are given an absolute Unix-style path. Your task is to simplify the path by resolving special tokens:

- A single dot (".") represents the current directory and should be ignored.
- A double dot ("..") represents moving up one directory. If you are at the root directory, it should be ignored.
- Multiple consecutive slashes should be treated as a single slash.

The simplified canonical path must always begin with a slash ("/") and must be the shortest string representing the absolute path.

Input

The input consists of a single line containing an absolute Unix-style path:

- The path is a non-empty string.
- It always starts with a slash ("/").
- The length of the string is at most 1,000,000 characters.(Suggested to use fgets(buff, n, stream);)

Output

Print the simplified canonical path.

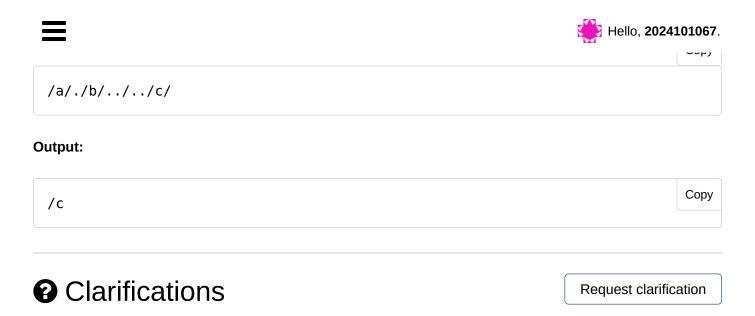
Examples

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	Hello, 2024101067 .
/home/	Сору
Output:	
/home	Сору
Explanation: The trailing slash is removed, so the canonical path is simply /home.	
Example 2	
Input:	
//	Сору
Output:	
/	Сору
Explanation: The "" token attempts to move up from the root, which is not allowe simplified path remains /.	d. Therefore, the
Example 3	
Input:	
/home//foo/	Сору
Output:	
/home/foo	Сору
Explanation: Multiple consecutive slashes are replaced by a single slash.	
Example 4	
Input:	

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No clarifications have been made at this time.

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