

## G. Path Canonization

time limit per test: 2 seconds

memory limit per test: 64 megabytes

input: standard input

output: standard output

A path in some Unix-similar file system is given. The path consists of elements separated with characters `" / "`. For example: `"/usr/share/mysql/../tomcat6/conf/server.xml"`. The path starts with the root directory (i.e. starts with the character `" / "`). Each element means a name of file or directory, or it is one of two special elements: `" . "` или `" . . "`. First of them stands for the current directory (for example, path `"/ . /usr/ . / . /share"` is equal to `"/usr/share"`). The second element `" . . "` stands for the moving to the parent directory (for example, path `"/usr/share/ . . /lib"` is equal to `"/usr/lib"`).

Your task is to convert the given path to such a path, which doesn't contain special elements `" . "` and/or `" . . "`. If it is impossible, print `" -1 "`. The only reason for it is an attempt to move to the parent directory from the root.

### Input

The only line contains the given path. The path starts with `" / "` and consists of elements separated with `" / "`. No two `" / "` follow one after another (consecutively). The only path which can end with `" / "` is the root directory path equal to `" / "`.

Each element may contain `" a "-" z "`, `" 0 "-" 9 "` and dots. Any element different from specials `" . "` and `" . . "` contains at least one character different from the dots.

The path length is between 1 and 1000 inclusively.

### Output

Print the required path or `" -1 "`.

### Examples

input
<code>/usr/share/mysql/../tomcat6/conf/server.xml</code>
output
<code>/usr/share/tomcat6/conf/server.xml</code>

input
<code>/a/././././..</code>
output
<code>/</code>