

---

## Filesystem

P38763\_en

Disetè Concurs de Programació de la UPC - Semifinal (2019-06-19)

---

Your computer filesystem is a tree with several directories. Initially, you only have the root directory `"/`. A filepath describes a path from `"/` to a directory, using slashes to separate directories. For instance, `"/`: only the root; `"/dev/`: "dev" inside the root; `"/pictures/travel/porto/`: "porto" inside "travel" inside "pictures" inside the root.

You have three commands to change the filesystem:

- `make filepath`: Creates the minimum number of directories to make `filepath` valid.
- `erase filepath`: Removes the directory described by `filepath` and all its content. You can assume that `filepath` always exists.
- `move src dst`: Moves the directory `src` and all its content inside the directory `dst`. You can assume that `src` and `dst` exist, that `src` and `dst` are different, and that `dst` is not a subdirectory of `src`.

Additionally, assume that the root will never be moved nor removed. But you can make `/.`

Given a list of commands, print the whole filesystem with an indented tree as shown in the sample outputs. List the children of every directory in alphabetical order.

## Input

Input consists of between 1 and a few thousand commands. The directory names consist of between 1 and 8 lowercase letters. Every command will create a small number of new directories, if any. At every moment, the tree will not be "too large" nor "too high".

## Output

After every command, print a line with 20 dashes followed by the filesystem tree.

### Sample input 1

```
make /dev/null/  
make /dev/  
make /dev/null/  
move /dev/null/ /dev/
```

### Sample output 1

```
-----  
/  
  dev  
    null  
-----  
/  
  dev  
    null  
-----  
/  
  dev  
    null  
-----  
/  
  dev  
    null
```

## Sample input 2

```
make /photos/travel/
make /test/a/b/z/
make /test/a/z/z/
move /photos/travel/ /test/a/b/
make /test/d/h/
erase /test/d/h/
erase /test/
move /photos/ /
```

## Sample output 2

```
-----
/
  photos
    travel
-----
/
  photos
    travel
  test
    a
      b
        z
-----
/
  photos
    travel
  test
    a
      b
        z
      z
        z
-----
/
  photos
  test
    a
      b
        travel
      z
      z
      z
-----
/
  photos
  test
    a
      b
        travel
      z
      z
      z
    d
    h
-----
/
  photos
  test
    a
      b
        travel
      z
      z
      z
    d
-----
/
  photos
-----
/
  photos
```

## **Problem information**

Author : Albert Martínez

Generation : 2024-04-30 20:52:22

© *Jutge.org*, 2006–2024.

<https://jutge.org>