# Problem 2. Excel Functions

You will receive a table as an input - matrix with several rows and cols. The first row is the header row. Each header can have some **filter** applied. As a second parameter you will receive a command. You should execute the command and print the table **filtered, sorted or modified**.

Commands:

* hide {header}

If you receive hide command, delete the column with the corresponding header.

* sort {header}

If you receive sort command, sort the rows in the table by the header given in **ascending order**. **Note** that the header row should **not** be sorted.

* filter {header} {value}

If you receive filter command, return the rows with the value given in the corresponding header.

## Input / Constraints

You will receive as first parameter multidimensional array of strings, and a string as second parameter – a command. The input will always be valid.

## Output

Print on the console each of the table`s rows; rows elements should be separated by **" | ";**

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4  name, age, grade  Peter, 25, 5.00  George, 34, 6.00  Marry, 28, 5.49  sort name | name | age | grade  George | 34 | 6.00  Marry | 28 | 5.49  Peter | 25 | 5.00 |
| **Input** | **Output** |
| 4  firstName, age, grade, course  Peter, 25, 5.00, C#-Advanced  George, 34, 6.00, Tech  Marry, 28, 5.49, Ruby  filter firstName Marry | firstName | age | grade | course  Marry | 28 | 5.49 | Ruby |

*...* *Use filters to temporarily hide some of the data in a table, so you can focus on the data you want ...*