# Problem 4 – Cloud Manager

Write a program that reads file information from the console and **groups the files according to their extensions** in the format **<file-extension> <[file1, file2, … ]> <total memory in MB>**, where total memory is the sum of the sizes of the respective files. For example, given the files:

* sentinel **.exe** 15MB
* zoomIt **.msi** 3MB
* skype **.exe** 45MB
* trojanStopper **.bat** 23MB
* kindleInstaller **.exe** 120MB
* setup **.msi** 33.4MB
* winBlock **.bat** 1MB

The result should be:

* **.bat** [trojanStopper, winBlock] 24MB
* **.msi** [setup, zoomIt] 36.4MB
* **.exe** [kindleInstaller, sentinel, skype] 180MB

Extension lines should be **sorted by the extension names**. The files themselves should **also** **be** **ordered alphabetically**. Finally, the information is converted to JSON format and printed:

### {".bat":{"files":["trojanStopper","winBlock"],"memory":"24.00"},".exe":{"files":["kindleInstaller","sentinel","skype"],"memory":"180.00"},".msi":{"files":["setup","zoomIt"],"memory":"36.40"}}

### Input

The input is passed to the first JavaScript function found in your code as **array of several strings:** each string will contain information about a file in the format **<name> <extension> <memory>**, separated by spaces.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

Print the file information in **JSON format** as shown in the examples. The memory should be printed with **2 places after the decimal point**.

### Constraints

* File memory will be in the range **[0..1000000]**.
* Time limit: 0.3 sec. Memory limit: 16 MB.

### Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |
| sentinel .exe 15MB  zoomIt .msi 3MB  skype .exe 45MB  trojanStopper .bat 23MB  kindleInstaller .exe 120MB  setup .msi 33.4MB  winBlock .bat 1MB | {"**.bat**":{"files":["trojanStopper","winBlock"],"memory":"24.00"},"**.exe**":{"files":["kindleInstaller","sentinel","skype"],"memory":"180.00"},"**.msi**":{"files":["setup","zoomIt"],"memory":"36.40"}} |  | eclipse .tar.gz 198.00MB  uTorrent .gyp 33.02MB  nodeJS .gyp 14MB  nakov-naked .jpeg 3MB  gnuGPL .pdf 5.6MB  skype .tar.gz 66MB  selfie .jpeg 7.24MB  myFiles .tar.gz 783MB | {"**.gyp**":{"files":["nodeJS","uTorrent"],"memory":"47.02"},"**.jpeg**":{"files":["nakov-naked","selfie"],"memory":"10.24"},"**.pdf**":{"files":["gnuGPL"],"memory":"5.60"},"**.tar.gz**":{"files":["eclipse","myFiles","skype"],"memory":"1047.00"}} |

{"**.bat**":{"files":["trojanStopper","winBlock"],"memory":"24.00"},

"**.exe**":{"files":["kindleInstaller","sentinel","skype"],"memory":"180.00"},

"**.msi**":{"files":["setup","zoomIt"],"memory":"36.40"}}

{"**.gyp**":{"files":["nodeJS","uTorrent"],"memory":"47.02"},

"**.jpeg**":{"files":["nakov-naked","selfie"],"memory":"10.24"},

"**.pdf**":{"files":["gnuGPL"],"memory":"5.60"},

"**.tar.gz**":{"files":["eclipse","myFiles","skype"],"memory":"1047.00"}}