**Instructions**

* The duration of this challenge is **120 Minutes**.
* Programming questions have a **Compile and Run** option where you can run your solution against sample test cases before submitting it.
* Click **Evaluate** button only if your code compiles successfully.
* This challenge covers the following topic(s).
* Conditional constructs
* Looping
* Arrays
* Generic Collections
* List<object>, Dictionary<TKey,TValue>, SortedDictionary<TKey,TValue>, IEnumeration<KeyValuePair<TKey, TValue>>

**Problem : CompanySalesDetailsApp**

Software companies today operate on many different business models and provide a wide array of products and services. Revenue generated from these services includes software license sales, maintenance services, subscription fees, support services, and more.

You are given a sequence of**n** companies in format **<company\_name>:<annual\_sales in billon$>:<service>**.

**Example:**

* Microsoft:103.3:Desktop
* Oracle:39.5:Could Services
* SAP:27.4:Cloud Services
* Microsoft:10.3:Software
* VMWare:7.9:Virtualization
* Oracle:6.6:License Support
* SAP:7.5:Software
* Adobe:7.7:Digital Media

Write a program that prints **all companies** in **alphabetical**order. For each company print their annual sales amounts from all the services they provide.

**Print** the result in the following format:

**<company> : <annual\_sales in billon$>**

For the orders above the output should be:

* Adobe : 7.7
* Microsoft : 113.6
* Oracle : 46.1
* SAP : 34.9
* VMWare : 7.9

Add new class called **Service** with the following public properties.

* **Name** of type string
* **AnnualSalesAmount** of type float

Create another class called **CompanySalesRevenue** with the following methods.

|  |  |  |  |
| --- | --- | --- | --- |
| **Method Name** | **Input Argument** | **Return Type** | **Description** |
| GetCompanySalesDetails | List<string> | Dictionary<string, List<Service>> | This function accepts a list of strings as company details, returns a dictionary in which it arranges the company details from the input argument in such a way that company name is the key and list of services is the value. |
| DisplayCompaniesRevenueInOrder | Dictionary<string, List<Service>> | IEnumerable<KeyValuePair<string, float>> | This function accepts a dictionary of company details which is returned from **GetCompanySalesDetails** function and process it, finally returns the company name and the aggregate annual sales revenue from their varying services. |

**Input**

The input comes from the console.

At the first line the number **n** indicates the number of company details.

At the next **n** lines, we have **n** company details in format **<company>:<annual\_sales in billon$>:<service>**

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

**Output**

Print **one line for each company**. Company lines should be ordered in **alphabetical** **order**.

Each line should be in format **<company> : <annual\_sales in billon$>**

**Sample Input**

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Salesforce.com:10.5:SaaS

HCL:7.8:Application Integration Services

HCL:2.3:Infrastructure Management Services

HCL:3.4:Cybersecurity

Intuit:5.4:Personal and Small Business Financial Management

**Sample Output**

HCL : 13.5

Intuit : 5.4

Salesforce.com : 10.5