

2878 Groupings

A common requirement in report generation for commercial application software, is the presentation of information in a categorized or group form. Nowadays there are software components and report applications that allow the user to visualize his information, (normally stored in a Data Base) in an aggregated or group form, so that the user could take the most advantage of his information.

You were ask to make a small program that will receive a text file as input with a set of data in a tabular form, as well as some set of instructions to make groups and generate an output file with the data grouped as requested. The following data correspond to the Customers table in the Database Northwind stored in MSSQL Server.

CustomerID	CompanyName	ContactTitle	City	Country
ANATR	Ana Trujillo Emparedados	Owner	México D.F	Mexico
ANTON	Antonio Moreno Taquería	Owner	México D.F	Mexico
AROUT	Around the Horn	Sales Representative	London	UK
BERGS	Berglunds snabbköp	Order Administrator	Luleå	Sweden
BLAUS	Blauer See Delikatessen	Sales Representative	Mannheim	Germany
BLONP	Blondesddsl père et fils	Marketing Manager	Strasbourg	France
BOLID	Bólido Comidas preparadas	Owner	Madrid	Spain
ALFKI	Alfreds Futterkiste	Sales Representative	Berlin	Germany

In this case it was requested to group the information by Country

CustomerID	CompanyName	ContactTitle	City	Country
Country: France				
BLONP	Blondesddsl père et fils	Marketing Manager	Strasbourg	France
Country: Germany				
ALFKI	Alfreds Futterkiste	Sales Representative	Berlin	Germany
BLAUS	Blauer See Delikatessen	Sales Representative	Mannheim	Germany
Country: Mexico				
ANATR	Ana Trujillo Emparedados	Owner	México D.F	Mexico
ANTON	Antonio Moreno Taquería	Owner	México D.F	Mexico
Country: Spain				
BOLID	Bólido Comidas preparadas	Owner	Madrid	Spain
Country: Sweden				
BERGS	Berglunds snabbköp	Order Administrator	Luleå	Sweden
Country: UK				
AROUT	Around the Horn	Sales Representative	London	UK

Input

The program will receive as input several lines the first one is the string '[DATA]', then there will be $n + 1$ lines, each one will be a set of strings separated by the pipe symbol '|', there may be characters form other language in some strings. Of the $n + 1$ lines the first one correspond to the title of the information. Following the $n + 1$ lines there should be a line with '[GROUPS]'. After this line you should find m line each one indicating the groups to make and their order.

Output

The data and groups should be indented with one or several tab characters, depending their level in the hierarchy father-son, for example:

```
GROUP
TAB GROUP
TAB TAB DATA
```

Note: As some records in sample output were too long for printing, we've moved them to the line below. Anyway, your output should print each record in a line, no matter how long it is.

Sample Input

```
[DATA]
CustomerID|CompanyName|ContactName|ContactTitle|City|Country
BOTTM|Bottom-Dollar Markets|Elizabeth Lincoln|Accounting Manager|BC|Canada
BSBEV|B's Beverages|Victoria Ashworth|Sales Representative|London|UK
CACTU|Cactus Comidas para llevar|Patricio Simpson|Sales Agent|Buenos Aires|Argentina
CENTC|Centro comercial Moctezuma|Francisco Chang|Marketing Manager|México D.F.|Mexico
CHOPS|Chop-suey Chinese|Yang Wang|Owner|Bern|Switzerland
COMMI|Comércio Mineiro|Pedro Afonso|Sales Associate|Sao Paulo|Brazil
CONSH|Consolidated Holdings|Elizabeth Brown|Sales Representative|London|UK
DRACD|Drachenblut Delikatessen|Sven Ottlieb|Order Administrator|Aachen|Germany
DUMON|Du monde entier|Janine Labrune|Owner|Nantes|France
EASTC|Eastern Connection|Ann Devon|Sales Agent|London|UK
ERNSH|Ernst Handel|Roland Mendel|Sales Manager|Graz|Austria
FAMIA|Familia Arquibaldo|Aria Cruz|Marketing Assistant|Sao Paulo|Brazil
FISSA|FISSA Fabrica Inter. Salchichas S.A.|Diego Roel|Accounting Manager|Madrid|Spain
FOLIG|Folies gourmandes|Martine Rancé|Assistant Sales Agent|Lille|France
FOLKO|Folk och fä HB|Maria Larsson|Owner|Bräcke|Sweden
[GROUPS]
Group:Country
Group:City
```

Sample Output

```
Country: Argentina
    City: Buenos Aires
        CACTU|Cactus Comidas para llevar|Patricio Simpson|Sales Agent|Buenos Aires|
        Argentina
Country: Austria
    City: Graz
        ERNSH|Ernst Handel|Roland Mendel|Sales Manager|Graz|Austria
Country: Brazil
    City: Sao Paulo
        FAMIA|Familia Arquibaldo|Aria Cruz|Marketing Assistant|Sao Paulo|Brazil
        COMMI|Comércio Mineiro|Pedro Afonso|Sales Associate|Sao Paulo|Brazil
Country: Canada
    City: BC
        BOTTM|Bottom-Dollar Markets|Elizabeth Lincoln|Accounting Manager|BC|Canada
Country: France
    City: Lille
        FOLIG|Folies gourmandes|Martine Rancé|Assistant Sales Agent|Lille|France
    City: Nantes
```

DUMON|Du monde entier|Janine Labrune|Owner|Nantes|France
Country: Germany
City: Aachen
DRACD|Drachenblut Delikatessen|Sven Ottlieb|Order Administrator|Aachen|
Germany
Country: Mexico
City: México D.F.
CENTC|Centro comercial Moctezuma|Francisco Chang|Marketing Manager|México D.F.|
Mexico
Country: Spain
City: Madrid
FISSA|FISSA Fabrica Inter. Salchichas S.A.|Diego Roel|Accounting Manager|Madrid|
Spain
Country: Sweden
City: Bräcke
FOLKO|Folk och få HB|Maria Larsson|Owner|Bräcke|Sweden
Country: Switzerland
City: Bern
CHOPS|Chop-suey Chinese|Yang Wang|Owner|Bern|Switzerland
Country: UK
City: London
CONSH|Consolidated Holdings|Elizabeth Brown|Sales Representative|London|UK
EASTC|Eastern Connection|Ann Devon|Sales Agent|London|UK
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