Chess: Part I
Problem ID: a16p01chessplayerspart1

In this first part, the purpose of the program is to display another view of the data, by grouping the data by country.

In addition to the above requirement, you should make sure that your program can easily look up a given chess player and display their attributes (rank, country, rating, birth year), even though that functionality is not part of the current requirements.

Input

The input consists of a single line, containing the name of an input file which will be made accessible to the program.

Output

The output should contain a table of player rankings grouped by country, the beginning of which should look like the following:

```
Players by country:
-------------------
ARG (1) (2653.0):
                        Sandro Mareco      2653
ARM (3) (2710.3):
                       Levon Aronian      2780
                   Gabriel Sargissian      2691
                     Hrant Melkumyan      2660
AUT (1) (2690.0):
                       Markus Ragger      2690
AZE (6) (2722.3):
                  Shakhriyar Mamedyarov      2820
                    Teimour Radjabov      2751
                   Arkadij Naiditsch      2721
                       Rauf Mamedov      2699
                      Eltaj Safarli      2676
                     Gadir Guseinov      2667
BLR (1) (2664.0):
                    Vladislav Kovalev      2664
CHN (9) (2718.7):
                        Liren Ding      2804
                        Yangyi Yu      2765
                          Yi Wei      2742
                        Hao Wang      2722
                     Xiangzhi Bu      2712
                      Chao b Li      2708
                       Yue Wang      2681
                         Hua Ni      2676
                      Yifan Hou      2658
```

So, the first two lines should contain the table header, on the first line, accompanied by an equally long line of dashes on the second line. After that, each country that has at least one player among the 100 top scoring players, should make an appearance in alphabetical order, as a subheader, followed by a list of the players from that country.

The numbers in parenthesis are the number of players in each group and the average chess ratings of those players.

For each country, the players should be listed in order of rating, the highest scoring first, and so on down the list. As it happens, this is the same order as they appear in the input file. When printing the chess player name and rating, use this format: `{:>40}{:>10}`

Sample Input 1	Sample Output 1
chess-top-100.csv	Enter filename: Players by country:

```
Enter filename: Players by country:
-------------------
ARG (1) (2653.0):
                        Sandro Mareco    2653
ARM (3) (2710.3):
                       Levon Aronian     2780
                   Gabriel Sargissian    2691
                    Hrant Melkumyan      2660
AUT (1) (2690.0):
                       Markus Ragger     2690
AZE (6) (2722.3):
                  Shakhriyar Mamedyarov  2820
                    Teimour Radjabov     2751
                   Arkadij Naiditsch     2721
                      Rauf Mamedov       2699
                     Eltaj Safarli       2676
                    Gadir Guseinov       2667
BLR (1) (2664.0):
                   Vladislav Kovalev     2664
CHN (9) (2718.7):
                       Liren Ding        2804
                       Yangyi Yu         2765
                         Yi Wei          2742
                       Hao Wang          2722
                     Xiangzhi Bu         2712
                      Chao b Li          2708
                       Yue Wang          2681
                         Hua Ni          2676
                      Yifan Hou          2658
CRO (1) (2687.0):
                       Ivan Saric        2687
CUB (1) (2653.0):
                  Lazaro Bruzon Batista  2653
CZE (2) (2702.0):
                      David Navara       2740
                    Viktor Laznicka      2664
EGY (1) (2686.0):
                       Bassem Amin       2686
ENG (5) (2688.6):
                     Michael Adams       2712
                    Matthew D Sadler     2693
                    David W L Howell     2689
                    Gawain C B Jones     2677
                     Luke J McShane      2672
ESP (1) (2713.0):
                  Francisco Vallejo Pons 2713
FID (1) (2740.0):
                    Veselin Topalov      2740
FRA (2) (2729.0):
                 Maxime Vachier-Lagrave  2780
                     Etienne Bacrot      2678
GEO (1) (2715.0):
                    Ivan Cheparinov      2715
GER (1) (2667.0):
                  Liviu-Dieter Nisipeanu 2667
HUN (4) (2695.8):
                    Richard Rapport      2725
                     Zoltan Almasi       2702
                       Peter Leko        2690
                      Ferenc Berkes      2666
```