

7.9 LAB: Sorting TV Shows (dictionaries and lists)

Write a program that first reads in the name of an input file and then reads the input file using the `file.readlines()` method. The input file contains an unsorted list of number of seasons followed by the corresponding TV show. Your program should put the contents of the input file into a dictionary where the number of seasons are the keys, and a list of TV shows are the values (since multiple shows could have the same number of seasons).

Sort the dictionary by key (least to greatest) and output the results to a file named **output_keys.txt**, separating multiple TV shows associated with the same key with a semicolon (;). Next, sort the dictionary by values (alphabetical order), and output the results to a file named **output_titles.txt**.

Ex: If the input is:

```
file1.txt
```

and the contents of file1.txt are:

```
20
Gunsmoke
30
The Simpsons
10
Will & Grace
14
Dallas
20
Law & Order
12
Murder, She Wrote
```

the file output_keys.txt should contain:

```
10: Will & Grace
12: Murder, She Wrote
14: Dallas
20: Gunsmoke; Law & Order
30: The Simpsons
```

and the file output_titles.txt should contain:

```
Dallas
Gunsmoke
Law & Order
Murder, She Wrote
The Simpsons
Will & Grace
```

Note: There is a newline at the end of each output file, and **file1.txt** is available to download.

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LAB ACTIVITY

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Downloadable files

file1.txt

Download

ma...py

Load default template...

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Type your code here

Develop mode

Submit mode

Run your program as often as you'd like, before submitting for grading. Below, type any needed input values in the first box, then click **Run program** and observe the program's output in the second box.

Enter program input (optional)

If your code requires input values, provide them here.

Run program

Input (from above)

→

main.py
(Your program)

→

Output (shown below)

Program output displayed here

Signature of your work

What is this?

History of your effort will appear here once you begin working on this zyLab.

Feedback?