

C4M Homework: Summer Phase, Exercise 3 Part II

A file contains a list of patients, and the symptoms they exhibit. Each line contains the name of a patient, and all of their symptoms. Write a function with the signature `read_in_symptoms(filename)` that takes the name of the file, and returns a dictionary whose keys are the patient names and whose values are lists of symptoms that correspond to patients. Assume that only the first name of the patient is given (and it contains no spaces), and that symptoms are all described using one word.

For example, `read_in_symptoms("sym_data1.txt")` should return

```
{'bob': ['nausea', 'lightheadedness'], 'frank': ['fever']}
```

We have provided a short Python program that you must use to test your submission. Download `tester.py` from the website and paste your function into the top of this file. Then run `tester.py`.

You are encouraged to look at `tester.py` to see what it is doing, but you don't actually have to understand anything about it to use it to test your submission. We've added some comments to the file to help you see how it works. If we didn't cover the `join` method in your Phase I sessions, you can read about it at http://www.diveintopython.net/native_data_types/. But remember, you don't need to do this to be able to use the tester.

Once you are happy with your `read_in_symptoms` function, put it back in its own file called `read_in_symptoms.py`. Paste the output from running `tester.py` into the file as a comment so that the marker can see the output easily. Submit this final version on MarkUs under E3P2.