

OCA-3 Exercise: This problem asks you to create a dictionary using the contents of a file. Try the problem first and then watch the video for a step-by-step explanation. **Do NOT hand in this worksheet—it is only for your reference.**

Consider a file whose contents are a series of comma separated values that represent a student. The first value is the student name and the remaining values are pairs of values representing the classes and grades of the student, separated by colons. A sample input file, `students.txt`, is shown below:

```
#name,class1:grade1,class2:grade2,..., classn:graden
sue,csc110:A,csc120:A,csc210:B
javier,ece175:B,csc120:A
```

Write a function `process_input(fname)` that takes an argument `fname` which is the name of a file containing comma separated values as described above. The function reads the file and creates a dictionary. The keys of the dictionary are the student names. The corresponding value of each key is a list of lists, where each list is a class name and grade.

For the sample input file above, `student.txt`, the call `process_input("student.txt")` would return the following dictionary:

```
{ 'sue':      [['csc110', 'A'], ['csc120', 'A'], ['csc210', 'B']],
  'javier':   [['ece175', 'B'], ['csc120', 'A']]
}
```

Assume that the file exists, has only one header line starting with `#`, and that the file contains all expected values. (That is, no error checking is needed.) **Do NOT import the csv library.**