

CS8, Spring 2017, UCSB  
Hw7: Worth 50% of Lab07 score (50 total points)

Print this form, staple loose pages together, and write your answers on it.

Accepted: On paper, at \*your\* lab section on Tuesday, May 23.  
Place on the front desk as you walk in, before getting seated.

Name (2 pts): \_\_\_\_\_

Umail (2 pts): \_\_\_\_\_@umail.ucsb.edu

Lab Time (2 pts) Circle one:        8am        9am        10am        11am

1. Below is a transcript of a shell session in Python. Fill in what would be printed by the shell after each set of statements. [Hint: TRY each one in Python.]

a. (2 pts)

```
>>> myDict = {"Mei":95,"Bob":85,"Jose":93,"Diana":100}
>>> myDict["Jose"]
```

b. (4 pts) You MUST try this one to know the answer! [Think about why.]

```
>>> for item in myDict:
...     print(item)
```

c. (4 pts)

```
>>> myDict["Raj"] = 87
>>> names = list(myDict.keys())
>>> names.sort()
>>> names
```

d. (4 pts)

```
>>> for name in names:
...     print(myDict[name])
```

e. (4 pts)

```
>>> for name in names:
...     print(name,": ",myDict[name])
```

f. (4 pts)

```
>>> for name in sorted(myDict):
...     print(name,": ",myDict[name])
```

2. (10 pts) write a function named `printSorted` that takes a dictionary as its only parameter, and it prints out the key/value pairs in order by key. See what happened in problem #1, for that holds the "key" to this problem.

3. Read text Section 5.2 and review Section 3.4.3. Then answer the following.

a. (2 pts) write a single line of code that will ask the user for a filename and store the resulting filename into a variable named `fileName`.

b. (2 pts) write a single line of code that will open the file specified by the user in part a and store the file reference in a variable named `myFile`.

c. (6 pts) write a for loop and related code that will print just the first 5 characters of each line of the file you opened in part b.

d. (2 pts) write a single line of code that will close the file, indicating the program is finished using it.

End of Hw7