

## In-Class Worksheet #6

```
prog3.py - /Users/bill/classes/231-p/exam2/prog3.py
def f1 (myDict):
    temp = 0
    for value in myDict.values():
        temp = temp + value
    return temp

def f2 (myDict):
    temp = ''
    for key in myDict:
        if temp < key:
            temp = key
    return temp

def f3(myDict,k,v):
    if k in myDict:
        myDict[k]=v

aDict={'bill':1,'rich':2,'fred':10,'walter':20}
print f1(aDict)           # Line 1
print f2(aDict)          # Line 2
print f3(aDict,'bill',-1) # Line 3
print aDict              # Line 4
```

Ln: 23 | Col: 0

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KEY: b c e c

1. What output is produced by Line 1 in the Figure?
  - a. 2
  - b. 33
  - c. 10
  - d. 20
  - e. None of the above
2. What output is produced by Line 2 in the Figure?
  - a. 'bill'
  - b. 'rich'
  - c. 'walter'
  - d. 'fred'
  - e. None of the above
3. What output is produced by Line 3 in the Figure?
  - a. {'bill':1,'rich':2,'fred':10,'walter':20}
  - b. 'bill'
  - c. {'bill':-1,'rich':2,'fred':10,'walter':20}
  - d. -1
  - e. None of the above
4. What output is produced by Line 4 in the Figure?
  - a. {'bill':1,'rich':2,'fred':10,'walter':20}
  - b. 'bill'
  - c. {'bill':-1,'rich':2,'fred':10,'walter':20}
  - d. -1
  - e. None of the above

Write a function that does the following:

1. Takes as an argument the name of a file to open
2. Counts the number of words in the file and returns that integer value
  - a. "words" are any space-separated element of a string. 'This is a test.' has 4 words.

Write a main program that does the following:

1. Calls the function on every .txt file in the current directory.
2. Prints out the name of each file and its word count

```
*temp.py - /Users/bill/Desktop/temp.py*
import glob
import os
def countWords(fName):
    fd = open(fName)
    total=0
    for line in fd:
        line = line.strip()
        words = line.split()
        total += len(words)
    return total

def main ():
    fileLst = glob.glob("*.txt")
    print 'Present directory is: %s'%(os.getcwd())
    for f in fileLst:
        cnt = countWords(f)
        print '%20s : %3d'%(f,cnt)
```

Ln: 17 Col: 34