

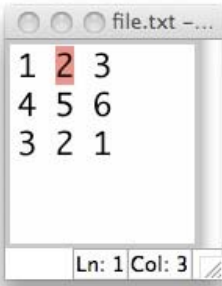
## In-Class Worksheet #7

```
*proj04.py - /Users/bill/classes/231-p/FS08/exam2/proj04.py*
def f1 (fd,s):
    for ln in fd:
        wrds = ln.split()
        for w in wrds:
            s.add(int(w))

def f2 (s,l=[0,1,2,3]):
    tempSet = set(l)
    if l[0]:
        diff = s.difference(tempSet)
    else:
        diff = s.symmetric_difference(tempSet)
    return diff

fd = open("file.txt", 'r')
mySet = set()
f1(fd,mySet)
result = f2(mySet)
print len(mySet)           # Line 1
print 1 in mySet           # Line 2
print result                # Line 3
result = f2(mySet,[3,2,1])
print result                # Line 4
Ln: 23 Col: 36
```

Contents: file.txt



```
file.txt -...
1 2 3
4 5 6
3 2 1
Ln: 1 Col: 3
```

Name:

Name:

Name:

- 1) What output does Line 1 produce in the given program? KEY: A,C,C,D
  - a) 6
  - b) 7
  - c) 8
  - d) 9
  - e) None of the above
- 2) What output does Line 2 produce in the given program?
  - a) 0
  - b) 1
  - c) True
  - d) False
  - e) None of the above
- 3) What output does Line 3 produce in the given program?
  - a) set([0,1,2,3])
  - b) set([1,2,3,4,5,6])
  - c) set([0,4,5,6])
  - d) set([4,5,6])
  - e) None of the above
- 4) What output does Line 4 produce in the given program?
  - a) set([4,5,6])
  - b) set([1,2,3,4,5,6])
  - c) set([0,4,5,6])
  - d) set([0,1,2,3])
  - e) None of the above

Write a program that does the following:

- prompt the user for a filename
- record the longest word in each line, along with the line
- print for each line: the line number, the word, the line and its length

```
*test.py - /Users/bill/Desktop/test.py*
fName = raw_input("File name:")
fd = open(fName, 'r')

lineDict={}
cnt = 0
for line in fd:
    line = line.strip()
    wordList = line.split()
    longest = ''
    for w in wordList:
        if len(w) > len(longest):
            longest = w
    print longest, line
    lineDict[cnt]=(longest, line)
    cnt += 1

for k,v in lineDict.items():
    print '%d - %s - %d - %s'%(k, str(v[0]), len(v[0]), v[1])
```

Ln: 18 | Col: 58