

Assignment 3-Copy2

November 7, 2020

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[8]: def func1(inputFileName1):  
    with open(inputFileName1, "r") as data1:  
        outputFileName1 = '/Users/zunqiuwang/Desktop/public.txt'  
        out1 = open(outputFileName1, 'w')  
        for line in data1:  
            data = line.split('\t')  
            if 'Public' in line:  
                out1.write(line)  
    return outputFileName1
```

```
[9]: def func2(inputFileName2):  
    import re  
    with open(inputFileName2, "r") as data2:  
        outputFileName2 = '/Users/zunqiuwang/Desktop/detail_file.txt'  
        out2 = open(outputFileName2, 'w')  
        for line in data2:  
            data = line.split('\t')  
            num = re.findall('\d*[-]\d+', data[9])  
            if len(num) > 4:  
                out2.write(data[2] + '\t' + data[3] + '\t' + data[4] + '\t' +  
↪data[9] + '\n')  
    return outputFileName2
```

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[10]: def func3(inputFileName3):  
    import csv  
    with open(inputFileName3, 'r') as data3:  
        outputFileName3 = '/Users/zunqiuwang/Desktop/counts.txt'  
        out3 = open(outputFileName3, 'w')  
        reader = csv.reader(data3, delimiter='\t')  
        names = []  
        for line in reader:  
            names.append(line[0])  
        name = " ".join(names)  
        counts = {token: name.split().count(token) for token in set(name.  
↪split())}  
        for k,v in counts.items():  
            out3.write(str(k) + ':' + str(v) + '\n')
```

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return outputFileName3
```

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[11]: inputFileName1 = "/Users/zunqiuwang/Desktop/CCDS.current.txt"
func3(func2(func1(inputFileName1)))
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[11]: '/Users/zunqiuwang/Desktop/counts.txt'
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```
[39]: def func3(data3):
import csv
from collections import Counter
with open("/Users/zunqiuwang/Desktop/detail_file.txt", 'r') as data3:
    out3= open("/Users/zunqiuwang/Desktop/counts.txt", 'w')
    reader = csv.reader(data3, delimiter='\t')
    names = []
    for line in reader:
        names.append(line[0])
        counts = Counter(names)
    for k,v in counts.items():
        out3.write('{} -> {}\n'.format(k,v))
```

```
[33]: def func3(data3):
import csv
with open("/Users/zunqiuwang/Desktop/detail_file.txt", 'r') as data3:
    out3= open("/Users/zunqiuwang/Desktop/counts.txt", 'w')
    reader = csv.reader(data3, delimiter='\t')
    names = []
    for line in reader:
        names.append(line[0])
    counts = dict.fromkeys(names,0)
    for g in names:
        counts[g] = counts.get(g, 0) +1
    for k,v in counts.items():
        out3.write(str(k) + ' ' + str(v) + '\n')
```

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