In [10]:
```
def numChars(filename):
    # returns th number of characters in file name
    infile = open(filename,'r')
    content = infile.read()
    infile.close()
    return (len(content))
print (numChars("example.txt"), "Characters")
```

```
44 Characters
```

In [13]:
```
def numWords(filename):
    infile = open(filename,'r')
    content = infile.read()
    infile.close()
    wordList = content.split()
    print (wordList)
    return (len(wordList))
print (numWords('example.txt'), "Words")
```

```
['Hello', 'World', 'GitHub', 'StackOverFlow', 'Python', 'Easy']
6 Words
```

In [22]:
```
def numLines(Filename):
    infile = open(Filename, 'r')
    linelist = infile.readlines()
    infile.close()
    print (linelist)
    return (len(linelist))
numLines("example.txt")
```

```
['Hello World\n', 'GitHub\n', 'StackOverFlow\n', 'Python\n', 'Easy']
```

Out[22]:
```
5
```

In [43]:
```
def stats(filename):
    infile = open(filename,'r')
    linelist = infile.readlines()
    infile.close()
    infile = open(filename,'r')
    content = infile.read()
    wordlist = content.split()
    infile.close()
    print("Line Count: ",len(linelist),"\nWord Count: ",len(wordlist),"\nChar
    #return len(content),len(wordlist),len(linelist)
stats("example.txt")
```

```
Line Count:  5
Word Count:  6
Character Count:  44
```

In [54]:
```
distribution(filename):
A1,A,B1,B,C,C1,F = 0,0,0,0,0,0,0
infile = open(filename,'r')
content = infile.read()
infile.close()
wordList = content.split()
for i in wordList:
    if i == "A+":
        A1 =A1+1
    elif i == "A":
        A = A+1
    elif i == "B+":
        B1 = B1+1
    elif i == 'B':
        B = B+1
    elif i == "C+":
        C1 = C1+1
    elif i == "C":
        C = C+1
    elif i == "F":
        F = F+1
print("",A1,"Students Got A+\n",A,"Students Got A\n",B1,"Students Got B+\n",B,
ribution("grades.txt")
```

```
 2 Students Got A+
 4 Students Got A
 2 Students Got B+
 5 Students Got B
 0 Students Got C+
 3 Students Got C
 3 Students Got F
```

In [5]:
```
def duplicate(filename):
    infile = open(filename,'r')
    content = infile.read()
    wordlist = content.split()
    for i in wordlist:
        wordlist.remove(i)
        if i in wordlist:
            return True
        else:
            return False
duplicate("example.txt")
duplicate("grades.txt")
```

Out[5]: True

In [15]:
```
def abc(filename):
    infile = open(filename,'r')
    content = infile.read()
    wordlist = content.split()
    newfile=[]
    for i in wordlist:
        if len(i)==4:
            newfile.append("xxxx ")
        else:
            newfile.append(i)
            newfile.append(" ")
    outfile = open("abc.txt","w+")
    for i in newfile:
        outfile.write(i)
abc("example.txt")
```

In [ ]:
```

```