Week 09: Problem Set

Due: 2023-03-24 23:59:00

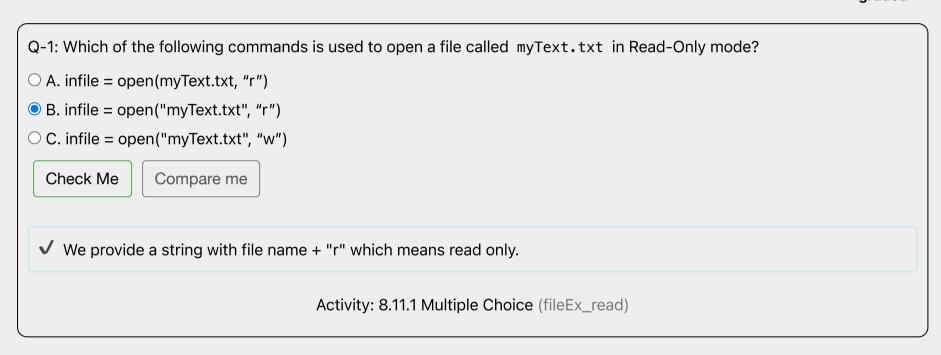
Description:

Self Grade: 0 of 17 = 0.0%

You have marked this assignment Finished. Click to mark it In Progress

Questions

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_read)

Not yet graded

```
Q-2: Which of the following commands is used to open a file called myText.txt in Write-Only mode?

A. outfile = open("myText.txt", "w")

B. outfile = open("myText.txt", "r")

C. outfile = open(myText.txt, "w")

Check Me

Compare me

Very We provide a string with file name + "w" which means write only.

Activity: 8.11.2 Multiple Choice (fileEx_write)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_write)

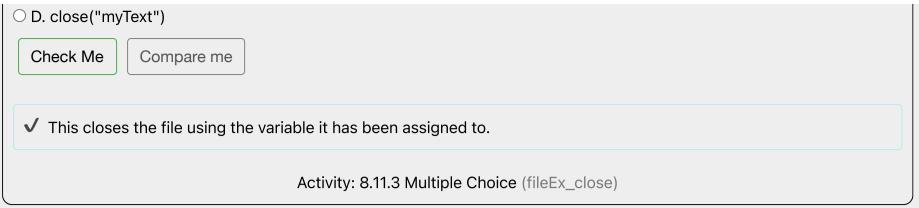
```
Q-3: Which command below closes the already open file myText.txt if the following code has already been written?

ref_file = open("myText.txt", "r")

A. "myText".close()

B. ref_file.close()

C. close(ref_file)
```



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_close)

Not yet graded

```
Q-4: Which of the commands below is used to add the following string to the end of a file object filevar?

somestring = "my Sentence"

A. filevar.append(somestring)
B. filevar.write("somestring")
C. filevar.write(somestring)
D. somestring.write()

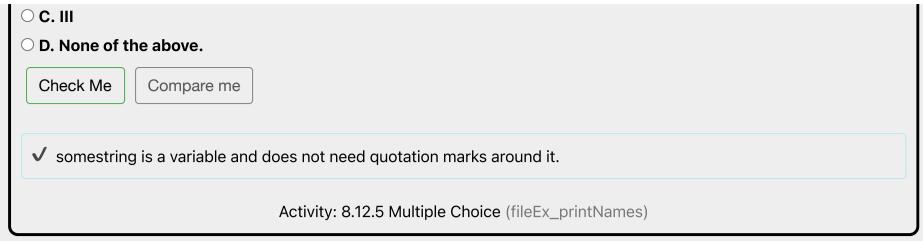
Check Me Compare me

V Using dot notation, we can call the write command with the string variable inside the parentheses.

Activity: 8.12.4 Multiple Choice (fileEx_writeLine)
```

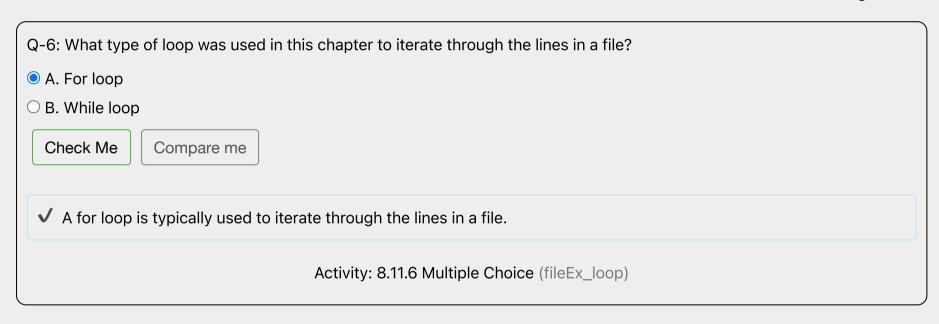
Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_writeLine)

```
Q-5: The contents of names.txt is listed here:
 Moana
 Cinderella
 Tiana
Which of the following code blocks will print all of the names in names.txt?
Ι
 names = open("names.txt", "r")
 for line in names:
     print(names)
II
 names = open("names.txt", "r")
 for line in names:
     print(line)
III
 names = open("names.txt", "r")
 for line in names:
     print("line")
\bigcirc A. I
B. II
```



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_printNames)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_loop)

Not yet graded

Q-7: True or False? Try and except statements are used to catch errors.

■ A. True

□ B. False

Check Me Compare me

✓ Try/except statements are used to prevent an exception from terminating a program.

Activity: 8.11.7 Multiple Choice (fileEx_catch)

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_catch)

Not yet graded

Q-8: What letter is used to indicate that a file is opening in read only mode?

r

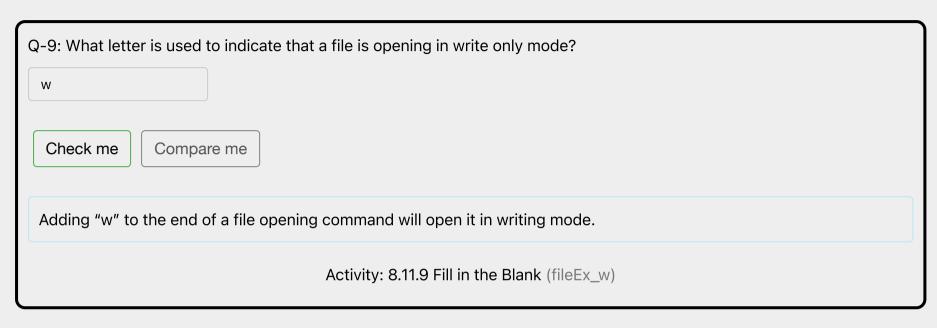
Check me Compare me

Adding "r" to the end of a file opening command will open it in reading mode.

Activity: 8.11.8 Fill in the Blank (fileEx_r)

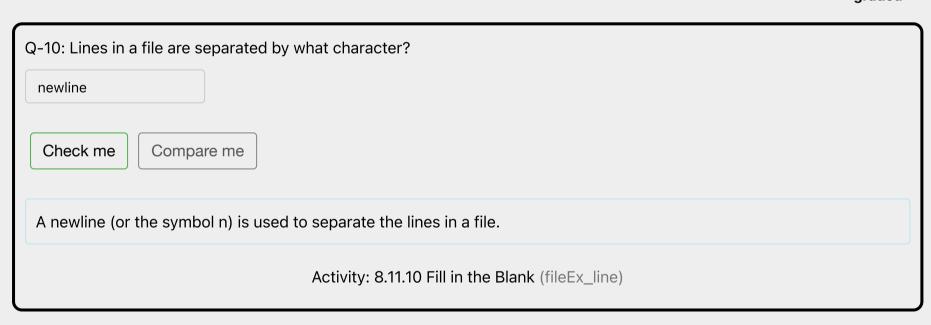
Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_r)

Not yet graded

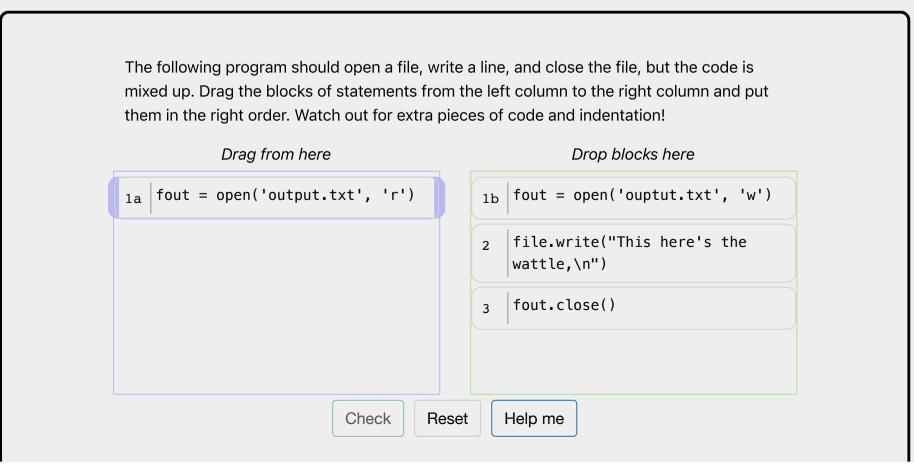


Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_w)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/Exercises.html#fileEx_line)



Perfect! It took you only one try to solve this. Great job!

Parsons (file_mixed_wattle)

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/mixedupCode.html#file_mixed_wattle)

Not yet graded

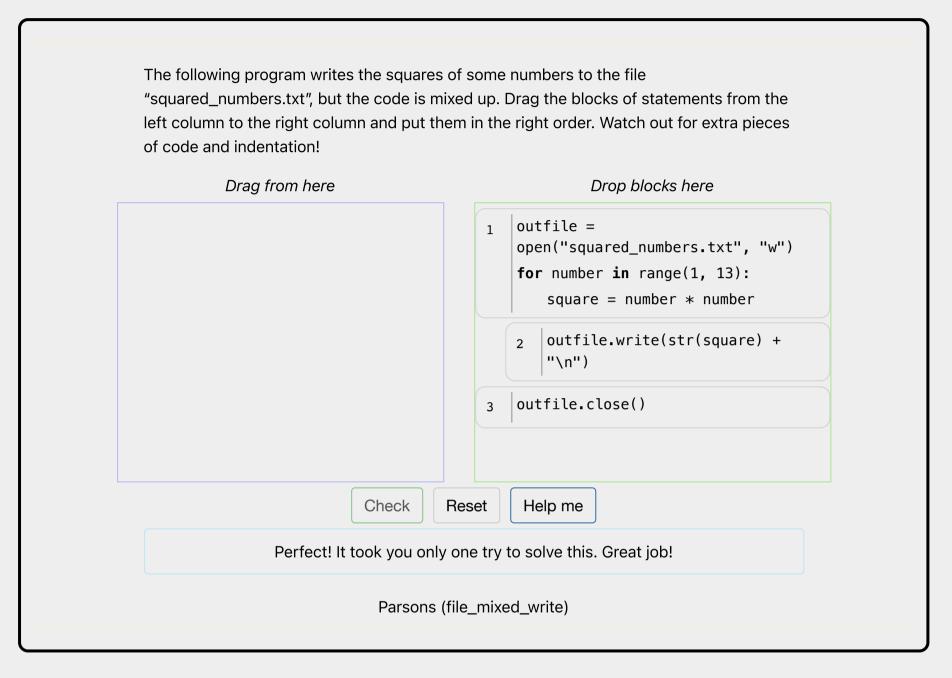
```
The following program counts the number of characters in the file "travel_plans.txt", but
the code is mixed up. Drag the blocks of statements from the left column to the right
column and put them in the right order. First create a variable num and initialize it. Then
open the file. Loop reading a line from the file and add the length of each line to num. Then
print the result. Watch out for extra pieces of code and indentation!
           Drag from here
                                                             Drop blocks here
                                                   num = 0
                                              1
                                                   travelFile =
                                                   open("travel_plans.txt", "r")
                                                   for line in travelFile:
                                                       num = num + len(line)
                                                   print(num)
                              Check
                                         Reset
                                                    Help me
                  Perfect! It took you only one try to solve this. Great job!
                               Parsons (file_mixed_travel)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/mixedupCode.html#file_mixed_travel)

Parsons (file_mixed_lineCount)

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/mixedupCode.html#file_mixed_lineCount)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/files/mixedupCode.html#file_mixed_write)

```
The following program should split the lines of "olympics.txt", then print the name, team,
and event of each athlete in a sentence. Unfortunately the code is mixed up. Drag the
blocks of statements from the left column to the right column and put them in the right
order. Watch out for extra pieces of code and indentation!
                                                          Drop blocks here
            Drag from here
                                                  olypmicsfile =
                                                  open("olypmics.txt", "r")
                                                  for line in olympicsfile:
                                                      values = line.split(",")
                                                      print(values[0], "is from",
                                                      values[3], "and is on the
                                                      roster for", values[4])
                                                  olympicsfile.close()
                            Check
                                       Reset
                                                 Help me
```

Perfect! It took you only one try to solve this. Great job!

Parsons (file_mixed_olympics)

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/mixedupCode.html#file_mixed_olympics)

Not yet graded

Write a function avg_month_close(lines, month) that takes the lines from the stocks file in a list and the abbreviation for a month (i.e. "Jan", "Feb") as parameters and returns the average value of the closing prices during that month for all the years in the file. Each line has: Date, Open, High, Low, and Close. The Date is in the format day—month—yy. The month is just the first three letters of the month.

Save & Run

1/1/2024, 10:56:19 PM - 8 of 8

Show in CodeLens

```
1 def avg_month_close(lines, month):
 2
      total_close = 0
 3
      count_close = 0
 4
 5
      for line in lines:
 6
          values = line.split(',')
 7
          date_components = values[0].split('-')
 8
          line_month = date_components[1]
 9
10
          if line_month[:3] == month:
               close_price = float(values[4]) # Assuming the closing price is at index 4
11
12
              total_close += close_price
13
               count_close += 1
14
15
      if count_close == 0:
16
           return 0 # Return 0 if there are no closing prices for the given month
17
      else:
18
          return total_close / count_close
19
20 with open('stocks.txt', 'r') as file:
      lines = file.readlines()
21
22
23 average_close_jan = avg_month_close(lines, "Jan")
24 print(f"Average closing price for January: {average_close_jan}")
25
26 average_close_feb = avg_month_close(lines, "Feb")
27 print(f"Average closing price for February: {average_close_feb}")
28
29
```

Average closing price for January: 5640.498461538461 Average closing price for February: 5622.201538461538

Result	Actual Value	Expected Value	Notes
Pass	5640	5640	Testing Jan = 5640
Pass	5622	5622	Testing Feb = 5622=
Pass	5957	5957	Testing Jun = 5957
Pass	5778	5778	Testing Jun = 5778
Pass	6043	6043	Testing Jun = 6043

You passed: 100.0% of the tests

Activity: 8.14.15 ActiveCode (file_ex_abbrq)

Not yet graded

Fix the errors below so that the pointGain function returns a list of all the dates where the Dow Jones gained more than 300 points from open to close. Each line has: Date, Open, High, Low, and Close. The Date is in the format daymonth-yy. There should be 22 dates.

> Save & Run Show in CodeLens 1/1/2024, 10:47:31 PM - 3 of 3

```
1 def pointGain():
 2
      file = open("stocks.txt", "r")
 3
      date_list = []
 4
 5
      for line in file:
 6
           values = line.split(',')
 7
 8
           opening = float(values[1])
 9
           closing = float(values[4])
10
11
           if (closing - opening) > 300:
12
               date_list.append(values[0])
13
      file.close()
14
15
      return date_list
16
17
18 if __name__ == "__main__":
19
      pass
20
21 from unittest.gui import TestCaseGui
22
23 class MyTests(TestCaseGui):
24
      def testOne(self):
25
           res = pointGain()
26
           self.assertEqual(len(res), 22, "Length(list) == 22")
           self.assertEqual(res[0], "1-Nov-01")
27
28
           self.assertEqual(res[1], "2-Apr-01")
29
30 MyTests().main()
31
```

Result	Actual Value	Expected Value	Notes
Pass	22	22	Length(list) == 22
Pass	'1-Nov-01'	'1-Nov-01'	
Pass	'2-Apr-01'	'2-Apr-01'	

You passed: 100.0% of the tests

Activity: 8.14.12 ActiveCode (file_ex_300)

Question in Context (/ns/books/published/cmsc-210-spring-2023/files/writeCode.html#file_ex_300)

You have marked this assignment Finished. Click to mark it In Progress

This assignment is graded and is no longer accepting submissions. You can still do the work, but it is up to your instructor whether they will accept it or not.

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