



## Practice Quiz: Reading & Writing CSV Files

TOTAL POINTS 5

1. We're working with a list of flowers and some information about each one. The `create_file` function writes this information to a CSV file. The `contents_of_file` function reads this file into records and returns the information in a nicely formatted block. Fill in the gaps of the `contents_of_file` function to turn the data in the CSV file into a dictionary using `DictReader`.

1 point

```
1 import os
2 import csv
3
4 # Create a file with data in it
5 def create_file(filename):
6     with open(filename, "w") as file:
7         file.write("name,color,type\n")
8         file.write("carnation,pink,annual\n")
9         file.write("daffodil,yellow,perennial\n")
10        file.write("iris,blue,perennial\n")
11        file.write("poinsettia,red,perennial\n")
12        file.write("sunflower,yellow,annual\n")
13
14 # Read the file contents and format the information about each row
15 def contents_of_file(filename):
16     return_string = ""
17
18     # Call the function to create the file
19     create_file(filename)
20
21     # Open the file
22     with open(filename) as file:
23         # Read the rows of the file into a dictionary
24         file = csv.DictReader(file)
25         # Process each item of the dictionary
26         for row in file:
27             return_string += "a {} {} is {}\n".format(row["color"], row["name"], r
28     return return_string
29
30 #Call the function
31 print(contents_of_file("flowers.csv"))
```

Run

Reset

```
a pink carnation is annual
a yellow daffodil is perennial
a blue iris is perennial
a red poinsettia is perennial
a yellow sunflower is annual
```

2. Using the CSV file of flowers again, fill in the gaps of the `contents_of_file` function to process the data without turning it into a dictionary. How do you skip over the header record with the field names?

1 point

```
1 import os
2 import csv
3
4 # Create a file with data in it
5 def create_file(filename):
6     with open(filename, "w") as file:
7         file.write("name,color,type\n")
8         file.write("carnation,pink,annual\n")
9         file.write("daffodil,yellow,perennial\n")
10        file.write("iris,blue,perennial\n")
11        file.write("poinsettia,red,perennial\n")
12        file.write("sunflower,yellow,annual\n")
13
14 # Read the file contents and format the information about each row
15 def contents_of_file(filename):
16     return_string = ""
17
18     # Call the function to create the file
19     create_file(filename)
20
21     # Open the file
22     with open(filename) as file:
23         # Read the rows of the file
24         rows = csv.reader(file)
25         next(rows, None)
26         # Process each row
27         for row in rows:
28             name, color, type = row
29             # Format the return string for data rows only
30             return_string += "a {} {} is {}\n".format(color, name, type)
31     return return_string
32
33 #Call the function
34 print(contents_of_file("flowers.csv"))
```

Run

Reset

```
a pink carnation is annual
a yellow daffodil is perennial
a blue iris is perennial
a red poinsettia is perennial
a yellow sunflower is annual
```

3. In order to use the `writerows()` function of `DictWriter()` to write a list of dictionaries to each line of a CSV file, what steps should we take? (Check all that apply)

1 point

- ☒ Create an instance of the `DictWriter()` class
- ☒ Write the `fieldnames` parameter into the first row using `writeheader()`
- ☒ Open the csv file using *with open*
- ☐ Import the OS module

4. Which of the following is true about unpacking values into variables when reading rows of a CSV file? (Check all that apply)

1 point

- ☒ We need the same amount of variables as there are columns of data in the CSV
- ☒ Rows can be read using both `csv.reader` and `csv.DictReader`
- ☒ An instance of the reader class must be created first
- ☐ The CSV file does not have to be explicitly opened

5. If we are analyzing a file's contents to correctly structure its data, what action are we performing on the file?

1 point

- ☐ Writing
- ☐ Appending
- ☒ Parsing
- ☐ Reading

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