

SD212 6-Week Exam Practice

1. Suppose a file called `inventory.csv` shows a drug store's inventory, like this:

```
item,each,quantity
toothpaste,2.50,5
bacon,12.00,3
lollipops,0.50,8
```

Write a Python program that reads in this file and prints out the total value (price times quantity) of all items worth less than \$10 each.

(For the example above it would be $2.50 * 5 + 0.50 * 8 = 16.50$.)

Don't worry about the formatting of the output number.

2. For the same `inventory.csv` file as above, write a bash pipeline that will count how many items contain the word `tooth`.

3. For the same `inventory.csv` example, what would be the *statistical data type* of each column in this file?

4. For the same `inventory.csv` file as above, write a bash script that lists any items the store is out of (i.e., their quantity equals 0.)

Your script should print out *only* the names of these items, one per line.

5. For the same kind of `inventory.csv` file as above, write a bash script that identifies and prints out any mis-formatted lines. (E.g., wrong number of columns, second column is not a price, or third column is not a number.)

6. For the same kind of `inventory.csv` file as above, write a bash script that modifies the file so that the prices are all whole dollar amounts ending in `.00` (rounding down).

7. Write a bash script that displays the 5th line of every `.txt` file in a directory called `books`.

