# **CC: 4.1.1: Getting Started with Pandas**

Getting Started with Pandas: Question 1

1/1 point (graded)

What is Pandas?

Review the video at 1:20 if you need a refresher.

A Python library designed to query and manipulate annotated data tables correct

An extension of **numpy** arrays

A classification library

# **Explanation**

pandas is a general library for manipulating 1d and 2d arrays of data of various types.

Getting Started with Pandas: Question 2

1/1 point (graded)

What keyword allows you to specify names to indices in a pd. Series?

names

index

correct

key

values

Getting Started with Pandas: Question 3

1/1 point (graded)

In pandas, what does the reindex method do?

Renames the indices according to the argument or adds an additional index to the pandas Series object

Reorders the indices of a pandas Series object according to its argument correct

## CC: 4.1.2: Loading and Inspecting Data

What command reads in csv files in pandas?

pd.csv\_read

pd.csv

pd.read(type="csv")

pd.read\_csv

Correct

#### **CC: 4.1.3: Exploring Correlations**

**Exploring Correlations: Question 1** 

1/1 point (graded)

How can you find a correlation matrix of a pd. Dataframe?

pd.correlation\_matrix

```
pd.corr_mat
pd.DataFrame.corr
correct
pd.correlation
Exploring Correlations: Question 2
1/1 point (graded)
How can you plot a correlation matrix by color?
plt.color
plt.pcolor
correct
plt.plot_corr
plt.corr
Exploring Correlations: Question 3
1/1 point (graded)
What is the matplotlib.pyplot function that plots a
colorbar on the side of a plot?
plt.plot(type="bar")
plt.coloredbar()
plt.bar()
```

# plt.colorbar() correct

## CC: 4.1.4: Clustering Whiskies By Flavor Profile

Clustering Whiskies By Flavor Profile: Question 1

1/1 point (graded)

What is spectral co-clustering?

A method for neatly plotting clustered data

A method for finding clusters of objects by the similarity of their attributes

correct

A method for finding the spectrum of a distribution

Clustering Whiskies By Flavor Profile: Question 2

1/1 point (graded)

How many clusters do we find in the whisky dataset used in Video 4.1.4?

4

5

6

correct

7

## **CC: 4.1.5: Comparing Correlation Matrices**

Comparing Correlation Matrices: Question 1

1/1 point (graded)

Consider the following code:

```
import pandas as pd
data = pd.Series([1,2,3,4])
data = data.ix[[3,0,1,2]]
```

What does data[0] return? Why?

1: data.ix alters the order of appearance, but leaves the indices the same.

correct

2: data.ix reorders the indices according to the argument.

3: data.ix resets the Series to the values given as the argument.

4: The 0th index of the data has been reordered to correspond to index 3 of the original, which is 4.

This code contains an error.

Comparing Correlation Matrices: Question 2

1/1 point (graded)

Consider the following code:

```
import pandas as pd
data = pd.Series([1,2,3,4])
data = data.ix[[3,0,1,2]]
data = data.reset_index(drop=True)
```

What does data[0] return? Why?

1: data.reset\_index resets the order of appearance, altering the indices to the original.

2: data.reset\_index reorders the indices according to the data.ix argument.

3: data.reset\_index resets the Series to the values given in the data.ix argument.

4: The 0th index of the data has been reordered to index 3 of the original, which is 4.

correct

This code contains an error.