Score: 75% · 18/24

Exam completed on: December 6, 2021

<b>/</b>	Question 1 of 24	
	<pre>If Trees=['elm','oak','poplar','plum','pine'], what is the value of Trees[-3]?</pre>	
	'elm'	
	'oak'	
	✓ 'poplar'	
	'plum'	
<b>/</b>	Question 2 of 24  How would you obtain the individual dimensions of the array named testarray?	~
	✓ testarray.shape	
	testarray.ndim	

testarray.size



Question 3 of 24

What does "palindrome"[::-2] return?

'mrnlp'

'eodia'

'aidoe'

'emordnilap'



Question 4 of 24

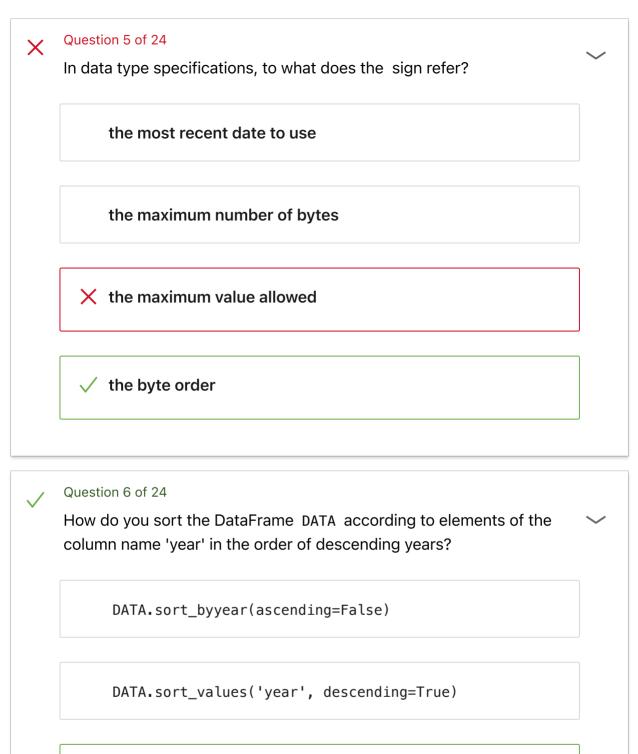
If df is a DataFrame that includes a column 'x', what is NOT a way to add a new column 'y', using a function 'f' that applies a transformation?

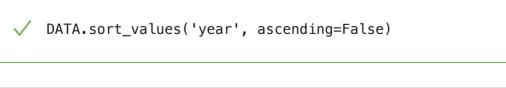
$$\sqrt{df_y} = f(df_x)$$

df['y'] = None; df.y = f(df.x)

df['y'] = f(df['x'])

df = df.assign(y = f(df.x))





DATA.sort\_values('year', increasing=False)



Question 7 of 24

What does .loc('A','B') do when applied to a DataFrame with

two mulces:

✓ It extracts records with indices having the values 'A' and 'B' respectively.

It returns the number of records having indices with values 'A' and 'B' respectively.

It changes the index values to 'A' and 'B' respectively.

X It returns the record number of records having indices of 'A' and 'B' respectively.

## X Question 8 of 24

If we are working with a DataFrame df indexed by year, what would df.loc[1914:1918] return?

A DataFrame including all rows with index equal to 1914 or 1918.

- X A DataFrame including all rows with index between 1914 and 1918 (excluded), if any.
- ✓ A DataFrame including all rows with index between 1914 and 1918 (included), if any.

The subset of the index that lies between 1914 and 1918.

Question 9 of 24

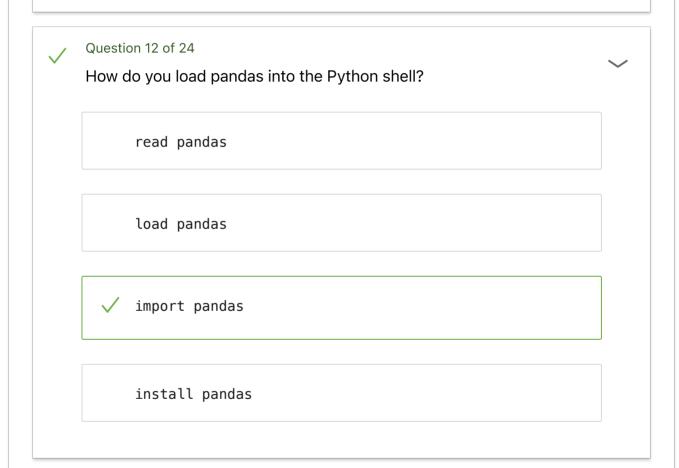
	one	
	× two	
	✓ more than three	
	three	
<b>/</b>	Question 10 of 24  If df is a DataFrame that includes a column 'year', what does `df.groupby('year') do?	~
	Returns a Python list of DataFrames, one for each year.	
	✓ Returns a special Pandas object – a grouped DataFrame – that lets us apply aggregations, such as sum() or max(), to each group separately.	
	Returns a numpy array of all the years represented in df.	
	Returns df sorted by year.	
	Question 11 of 24	~
•	Which generality best describes the pandas dialect of Python?	_

element.

Methods are focused on string processing, rather than numeric processing.

NumPy arrays are used extensively.

Statements are formed by concatenating one .method after another.



X Question 13 of 24

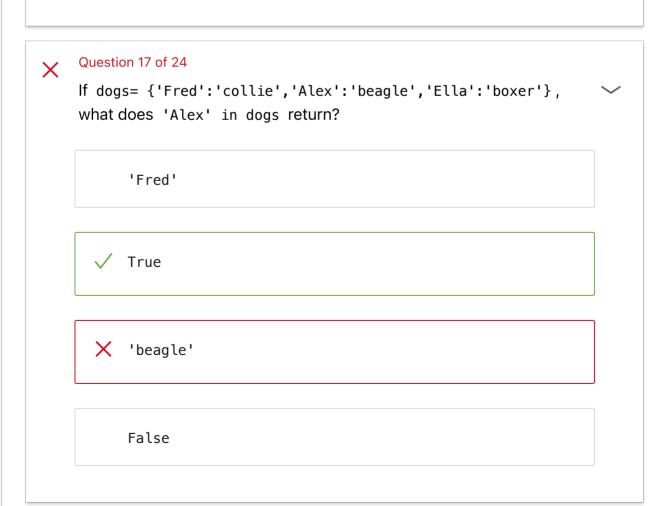
Which code would you use to compute the standard deviation of the values stored in the one-dimensional array DATA?

math.sqrt(var(DATA))

np.stderr('DATA')

<pre> ✓ math.sqrt(np.var(DATA))</pre>	
× np.stdev(DATA)	
Question 14 of 24 What does the DataFrame groupby operation perform?	~
√ segregation	
summation	
indexing	
aggregation	
Question 15 of 24	
Which values does np.linspace(0,6,3) return?	~
1, 3, and 5	
2, 4, and 6	
0, 2, and 4	

	Question 16 of 24	
•	When concatenating methods in Python, the resulting code is more readable if you	~
	make the code as short as possible	
	use as many abbreviations as possible	
	place all comments at the top of the file	
		$\neg$
	√ place each method on its own line	





Question 18 of 24

Jim wants to extend his ability to use Python for data science. Why should he learn pandas?

It does not need any other packages, such as NumPy.

It is well established, and on version 6.4.

It is a precursor to Python, and gives a good foundation for data analysis.

✓ It is rapidly becoming the most popular method for data analysis using Python.



Question 19 of 24

Which values are generated by range(4,12,3)?



4, 7, and 10

3, 6, 9, and 12

5, 8, and 11

0, 3, 6, 9, and 12



Question 20 of 24

How would you elevate a column to an index in a DataFrame? by changing the order of columns in the array used to build the DataFrame by using the elevate\_column() method by reordering the rows of the DataFrame by using the set\_index() method Question 21 of 24 What is the result of ' \n Franklin\n'.strip()? ' Franklin' '\nFranklin' 'Franklin' '\nFranklin\n' Question 22 of 24 Why is the list constructor commonly used to find an index of an array element? .index returns the array value for a particular index.

The array must be stripped of redundant information.

## LEARNING

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✓ .index only works with lists.



Question 23 of 24

There are many options for using Python in the cloud. What should you check if you experience errors with standard syntax?

the compression method

√ the version of the Python kernel being used

the fonts and color schemes for the editor

the version of the exercise files

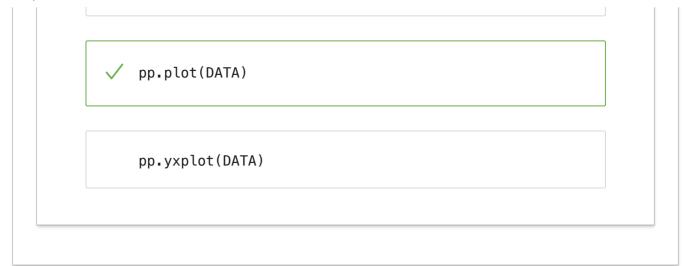


Question 24 of 24

If DATA contains a one-dimensional array, which instruction using matplotlib.pylot (imported as pp) creates a plot of the array value versus array index?

pp.plotyx(DATA)

pp.pyplot(DATA)



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