

Keep Learning

GRADE 100%

1 / 1 point

Quiz 2

LATEST SUBMISSION GRADE

100%

1 / 1 point $1. \ \ \, \text{For the following code, which of the following statements will } \textbf{not} \, \text{return True?}$ import pandas as pd
sdata = {'Ohio': 35000, 'Texas': 71000, 'Oregon': 16000, 'Utah': 5000} obj1 = pd.Series(sdata)
states = ['California', 'Ohio', 'Oregon', 'Texas'] obj2 = pd.Series(sdata, index=states) obj3 = pd.isnull(obj2) 1 import math 2 math.isnan(obj2['California']) 1 obj3['California'] • 1 obj2['California'] == None x = obj2['California'] obj2['California'] != x ✓ Correct The value of obj2['California'] is nan which is not the same as None, so this will return False 1 / 1 point import pandas as pd
d = {'1': 'Alice','2': 'Bob','3': 'Rita','4': 'Molly','5': 'Ryan'} S = pd.Series(d)In the above python code, the keys of the dictionary ${\bf d}$ represent student ranks and the value for each key is a student name. Which of the following can be used to extract rows with student ranks that are lower than 3? S.iloc[0:2] S.iloc[0:3] S.loc[0:2] S.loc[0:3] ✓ Correct S.iloc[i:j] can be used to retrieve Series rows from indices i to j-1 $\textbf{3.} \quad \text{Suppose we have a DataFrame named } \textbf{df}. \text{ We want to change the original DataFrame } \textbf{df} \text{ in a way that all the column}$ $names\ are\ cast\ to\ upper\ case.\ Which\ of\ the\ following\ expressions\ is\ \textbf{incorrect}\ to\ perform\ the\ same?$ Of = df.rename(mapper = lambda x: x.upper(), axis = 1) df = df.rename(mapper = lambda x: x.upper(), axis = 'column') (mapper = lambda x: x.upper(), axis = 1) df.rename(mapper = lambda x: x.upper(), axis = 1, inplace = True) ✓ Correct This is incorrect because the rename method will return a new DataFrame by default. We have to pass the result to our original DataFrame **df** or set the inplace parameter to 'True'.

gre score toefl score

1	337	118
2	324	107
3	316	104
4	322	110
5	314	103

For the given DataFrame \mathbf{df} we want to keep only the records with a \mathbf{toefl} score greater than 105. Which of the following

All of these will work

df.where(df['toefl score'] > 105).dropna()

df[df['toefl score'] > 105]

df.where(df['toefl score'] > 105)



This will not work as **df.where()** will not drop any data we don't want, it will just set their values to **nan**.

5. Which of the following can be used to create a DataFrame in Pandas?

- O 2D ndarray
- All of these work
- O Pandas Series object
- O Python dict

✓ Correct

All of these can be used to create a DataFrame in Pandas

6. Which of the following is an **incorrect** way to **drop** entries from the Pandas DataFrame named **df** shown below?

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	one	two	three	four
Ohio	0	1	2	3
Colorado	4	5	6	7
Utah	8	9	10	11
New York	12	13	14	15

- df.drop('one', axis = 1)
- Odf.drop('Ohio')
- df.drop('two')
- df.drop(['Utah', 'Colorado'])

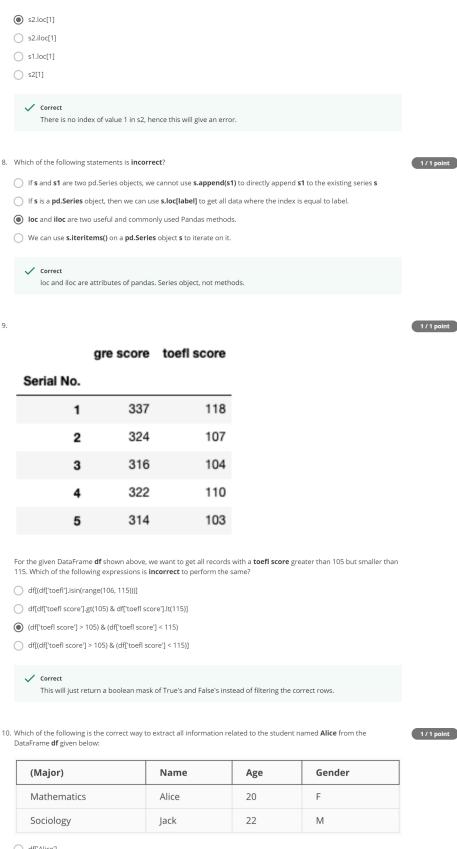
✓ Correct

This is an incorrect way to drop values from the column named 'two' because the axis has not been specified as 1 (representing 'columns') and the default value of axis is 0. It would yield the following error: KeyError: '['two'] not found in axis'.

7. For the Series **s1** and **s2** defined below, which of the following statements **will give an error**?

1 / 1 point

```
import pandas as pd
s1 = pd.Series({1: 'Alice', 2: 'Jack', 3: 'Molly'})
s2 = pd.Series({'Alice': 1, 'Jack': 2, 'Molly': 3})
```



df['Alice']
df.iloc['Mathematics']

df.T['Mathematics']

df['Mathematics']

Correct

This will correctly extract Alice's data as 'Mathematics' would be a column in df.T and column names can be passed as a key to retrieve the contents of the entire column, i.e. Alice's information in this case