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Full Name: Emmanuel Dadzie
Email: eadobolous@gmail.com

Test Name: ACDS Assessment 7: NumPy & Pandas

 Taken On:
 3 Mar 2021 03:08:13 EST

 Time Taken:
 36 min 17 sec/ 270 min

Work Experience: > 5 years
Invited by: TTS

Skills Score:

Tags Score: NumPy 105/110

Pandas 10/10

Python 50/55

Python 3 50/50

pandas 5/5

96% scored NumP sec or EST

scored in ACDS Assessment 7: NumPy & Pandas in 36 min 17 sec on 3 Mar 2021 03:08:13

#### **Recruiter/Team Comments:**

No Comments.

	Question Description	Time Taken	Score	Status
Q1	NumPy Arrays > Coding	5 min 39 sec	50/ 50	<b>②</b>
Q2	Reshaping Arrays > Coding	16 min 54 sec	50/ 50	<b>Ø</b>
Q3	NumPy > Multiple Choice	4 min 22 sec	0/5	$\otimes$
Q4	NumPy > Multiple Choice	3 min 8 sec	5/ 5	<b>②</b>
Q5	Pandas > Multiple Choice	49 sec	5/ 5	<b>②</b>
Q6	Pandas > Multiple Choice	2 min 50 sec	5/ 5	<b>②</b>
Q7	Pandas > Multiple Choice	1 min 42 sec	5/ 5	<b>②</b>

# QUESTION 1 Correct Answer

Score 50

```
NumPy Arrays > Coding NumPy Python 3
```

## QUESTION DESCRIPTION

Complete the function get\_n\_column.

The function takes in two variables:

arr - a 2d NumPy array

n - the column number to be returned

The function returns an array containing the values of the column specified (zero-based indexing).

You have access to NumPy.

#### Example

Input:

1

[[1, 2, 3],

[4, 5, 6],

[7, 8, 9]]

Output:

[2, 5, 8]

#### **CANDIDATE ANSWER**

#### Language used: Python 3

```
import numpy as np

#

Complete the 'get_n_column' function below.

#

The function is expected to return an array containing the values in the specified column n.

# The function accepts following parameters:

# 1. INTEGER n

# 2. 2d numpy array arr

def get_n_column(n, arr):

# Write your code here col_val = arr[:, n]

return col_val
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	Success	10	0.2785 sec	29.9 KB
Testcase 1	Easy	Sample case	Success	10	0.304 sec	29.6 KB
Testcase 2	Easy	Hidden case	Success	10	0.3487 sec	29.9 KB
Testcase 3	Easy	Hidden case	Success	10	0.3139 sec	29.8 KB
Testcase 4	Easy	Hidden case	Success	10	0.3423 sec	29.8 KB

No Comments

# QUESTION 2 Correct Answer

Score 50

Reshaping Arrays > Coding NumPy

QUESTION DESCRIPTION

Complete the function reshape\_array. It takes in two variables, x, y, and arr and returns a 2d numpy array reshaped as specified.

Input:

x = the x variable for reshapingy = the y variable for reshaping

arr = the intial array (not a numpy array)

Output:

A 2d numpy array that is shaped as (x, y).

If the new shape is larger than the elements in arr, add extra zeroes to the array to make the array be able to fit the shape.

You can assume you will not be given an x,y array shape that is too small for the input.

Examples:

Input:

y = 2

x = 3

arr = [1, 2, 3, 4, 5, 6]

Output:

[[1, 2, 3],

[4, 5, 6]]

Input:

y = 3

x = 2

arr = [1, 2, 3]

Output:

[[1, 2],

[3, 0],

[0, 0]]

## **CANDIDATE ANSWER**

# Language used: Python 3

```
import numpy as np

#

Complete the 'reshape_array' function below.

#

# The function is expected to return a numpy array.

# The function accepts following parameters:

# 1. INTEGER y

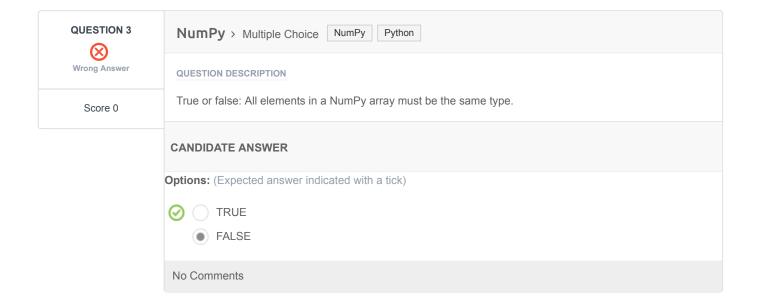
# 2. INTEGER x

# 3. INTEGER ARRAY arr

# 10 #

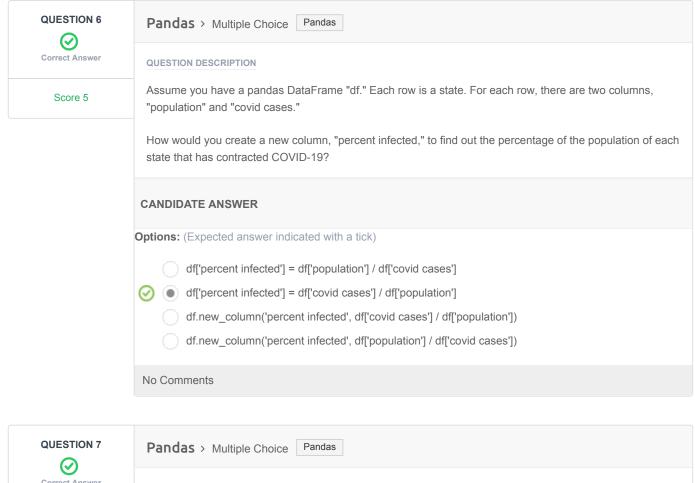
11 def reshape array(y, x, arr):
```

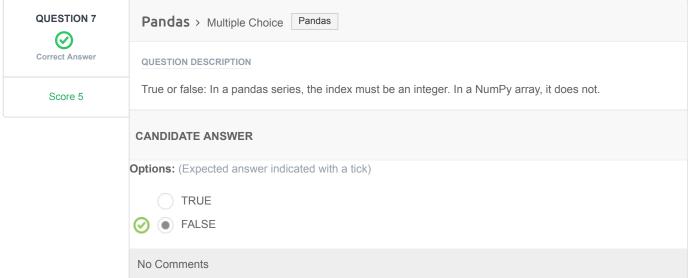
```
act reshape array (y, z, arr).
      # Write your code here
     if x * y \le len(arr):
14
          resh_arr = np.reshape(arr,(y,x))
          return resh arr
     else:
       new_arr = arr + ([0] * ((x * y) - len(arr)))
          print(new_arr)
           resh_arr = np.reshape(new_arr, (y,x))
           return resh_arr
   TESTCASE
            DIFFICULTY
                           TYPE
                                       STATUS
                                                  SCORE
                                                          TIME TAKEN
                                                                       MEMORY USED
                          Sample case
                                      Success
                                                    10
                                                           0.292 sec
                                                                          29.9 KB
  Testcase 0
                Easy
  Testcase 1
                 Easy
                          Sample case
                                      Success
                                                    10
                                                           0.2959 sec
                                                                          29.8 KB
                                      Success
  Testcase 2
                 Easy
                          Hidden case
                                                    10
                                                           0.2967 sec
                                                                          29.7 KB
                                      Success
  Testcase 3
                 Easy
                          Hidden case
                                                    10
                                                           0.318 sec
                                                                          29.8 KB
                                      Success
                                                                          29.8 KB
                 Easy
                          Hidden case
                                                    10
                                                           0.2951 sec
  Testcase 4
No Comments
```



QUESTION 4	NumPy > Multiple Choice NumPy			
Correct Answer	QUESTION DESCRIPTION			
Score 5	Which of the commands will result in the following array?			
	[[0. 0.] [0. 0.] [0. 0.] [0. 0.]]			
	CANDIDATE ANSWER			
	Options: (Expected answer indicated with a tick)			
	onp.zeroes((4,2))			
	np.array([0, 0] * 4)			
	np.array([0, 0]) * np.array([0, 0])			
	np.zeroes((2,4))			
	No Comments			
QUESTION 5	Pandas > Multiple Choice pandas			
Correct Answer	QUESTION DESCRIPTION			
Score 5	How do we select a single column from a pandas DataFrame? For this questions, assume we are retrieving the column "Name" from the DataFrame "df."			
	CANDIDATE ANSWER			
	Options: (Expected answer indicated with a tick)			
	df.get_col("Name")			
	df("Name")			
	of["Name"]			
	df.return_column("Name")			

No Comments





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