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# NumPy Quiz Results

Score: 22 of 25

88% Correct:

### Question 1:

What is a correct syntax to create a NumPy array?

✓ `np.array([1, 2, 3, 4, 5])`

Your answer

`np.createArray([1, 2, 3, 4, 5])`

`np.object([1, 2, 3, 4, 5])`

### Question 2:

Which of the following arrays is a two dimensional (2-D) array?

✓ `[[1, 2, 3], [4, 5, 6]]`

Your answer

`[1, 2, 3, 4, 5]`

42

## Question 3:

What is a correct syntax to check the number of dimensions in an array?

✗ `np.ndim()`

Your answer

`np.dim`

`np.dim()`

`np.ndim`

Correct answer

## Question 4:

What is a correct syntax to print the first item of an array?

✓ `print(myArr[0])`

Your answer

`print(myArr,1)`

`print(myArr[1])`

## Question 5:

What is a correct syntax to print the number 8 from the array below:

```
arr = np.array([[1,2,3,4,5], [6,7,8,9,10]])
```

✓ `print(arr[1, 2])`

Your answer

`print(arr[7, 2])`

`print(arr[3, 0])`

## Question 6:

What is a correct syntax to print the numbers [3, 4, 5] from the array below:

```
arr = np.array([1,2,3,4,5,6,7])
```

✓ `print(arr[2:5])`

Your answer

`print(arr[2:6])`

`print(arr[3:6])`

`print(arr[2:4])`

## Question 7:

Which syntax would print the last 4 numbers from the array below:

```
arr = np.array([1,2,3,4,5,6,7])
```

✓ `print(arr[3:])`

Your answer

`print(arr[:4])`

`print(arr[4:])`

`print(arr[4])`

## Question 8:

Which syntax would print every other item from the array below:

```
arr = np.array([1,2,3,4,5,6,7])
```

✗ `print(arr(0: step = 2))`

Your answer

`print(arr[::2])`

Correct answer

`print(arr[1:3:5:7])`

## Question 9:

What is a correct syntax to check the data type of an array?

✓ `arr.dtype`

Your answer

`arr.ctype`

`arr.type`

`arr.datatype`

## Question 10:

What is a correct syntax to create an array of type float?

✓ `arr = np.array([1, 2, 3, 4], dtype='f')`

Your answer

`arr = np.array([1, 2, 3, 4]).toFloat()`

`arr = np.float([1, 2, 3, 4])`

## Question 11:

Only one of the following statements is true when it comes to Views in NumPy, which one?

✓ The view SHOULD be affected by the changes made to the original array.

Your answer

The view SHOULD NOT be affected by the changes made to the original array.

## Question 12:

Only one of the following statements is true when it comes to Copies in NumPy, which one?

✓ The copy SHOULD NOT be affected by the changes made to the original array.

Your answer

The copy SHOULD be affected by the changes made to the original array.

## Question 13:

In NumPy, what does the SHAPE of an array mean?

✓ The shape is the number of elements in each dimension.

Your answer

The shape is the number of rows.

The shape is the number of columns.

## Question 14:

What is a correct syntax to return the shape of an array?

✓ `arr.shape`

Your answer

`arr.shape()`

`shape(arr)`

## Question 15:

What is a correct method to join two or more arrays?

✓ `concatenate()`

Your answer

`join()`

`array_join()`

## Question 16:

What is a correct method to split arrays?

✓ `array_split()`

Your answer

`vstack()`

All the other 3 answers are correct

`hstack()`

## Question 17:

What is a correct method to search for a certain value in an array?

✗ `find()`

Your answer

`search()`

`where()`

Correct answer

## Question 18:

What is a correct syntax to return the index of all items that has the value 4 from the array below:

`arr = np.array([1,4,3,4,5,4,4])?`

✓ `np.where(arr == 4)`

Your answer

`arr.search(4)`

`arr.where()`

## Question 19:

What is a correct method to sort the elements of an array?

✓ `sort()`

Your answer

`order()`

`orderby()`

## Question 20:

When using the NumPy random module, how can you return a random number from 0 to 100?

✓ `random.randint(100)`

Your answer

`random.rand(100)`

`random.rand()`

## Question 21:

When using the NumPy random module, how can you return a Normal Data Distribution with 1000 numbers, concentrated around the number 50, with a standard deviation of 0.2?

✓ `random.normal(size=1000, loc=50, scale=0.2)`

Your answer

`random.normal(size=1000, normal=50, s=0.1)`

`random.normal(size=1000, mean=50, deviation=0.2)`

## Question 22:

What is a correct syntax to mathematically add the numbers of arr1 to the numbers of arr2?

✓ `np.add(arr1, arr2)`

Your answer

```
np.append(arr1, arr2)
```

```
sum(arr1, arr2)
```

## Question 23:

What is a correct syntax to subtract the numbers from arr1 with the numbers from arr2?

✓ `np.subtract(arr1, arr2)`

Your answer

```
np.sub(arr1, arr2)
```

```
np.min(arr1, arr2)
```

```
np.minus(arr1, arr2)
```

## Question 24:

What is a correct method to round decimals in NumPy?

✓ All the other 3 are rounding methods in NumPy

Your answer

```
np.fix()
```

```
np.trunc()
```

```
np.around()
```

## Question 25:

What would be the answer of this cumulative summation in NumPy?

```
arr = np.array([1,2,3])  
print(np.cumsum(arr))
```



✓ [1 3 6]

Your answer

[6]

[9]

[3 6 9]

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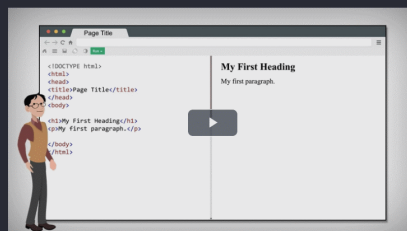
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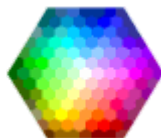
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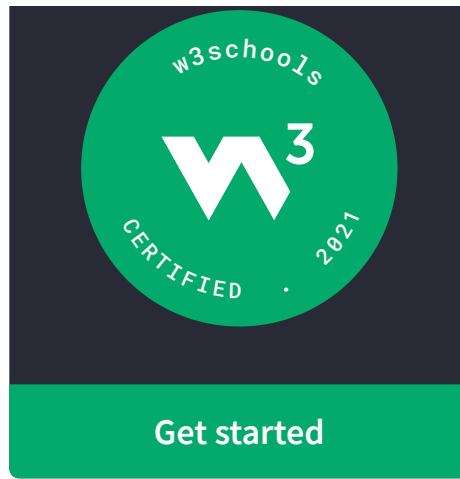
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