NumPy Quiz

Question 1:

What is a correct syntax to create a NumPy array?

a) np.array([1, 2, 3, 4, 5]) Your answer
b) np.createArray([1, 2, 3, 4, 5])
c) np.object([1, 2, 3, 4, 5])

Question 2:

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

a) [[1, 2, 3], [4, 5, 6]] Your answer
b) [1, 2, 3, 4, 5]
c) 42

Question 3:

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

a) arr.ndim Your answer
b) arr.dim
c) arr.ndim()
d) arr.dim()

Question 4:

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

a) print(myArr[0]) Your answer
b) print(myArr[1])
c) print(myArr,1)

Question 5:

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

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

b) print(arr[1, 2]) Your answer

c) print(arr[7, 2])

d) 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])

a) print(arr[2:5]) Your answer

b) print(arr[3:6])

c) print(arr[2:6])

d) 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])

a)print(arr[:4])

b) print(arr[4])

c) print(arr[3:]) Your answer

d) 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])

a) print(arr[::2]) Your answer
b) print(arr(0: step = 2))
c) print(arr[1:3:5:7])

Question 9:

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

a) arr.dtype Your answer
b) arr.type
c) arr.ntype
d) arr.datatype

Question 10:

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

a) arr = np.array([1, 2, 3, 4], dtype='f') Your answer
b) arr = np.array([1, 2, 3, 4]).toFloat()
c) 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?

a) The view SHOULD be affected by the changes made to the original array. Your answer
b) 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?

a) The copy SHOULD NOT be affected by the changes made to the original array. Your answer

b) 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?

a) The shape is the number of elements in each dimension. Your answer
b) The shape is the number of columns.
c) The shape is the number of rows.

Question 14:

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

a) arr.shape Your answer
b) shape(arr)
c) arr.shape()

Question 15:

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

a) concatenate() Your answer
b) join()
c) array_join()

Question 16:

What is a correct method to split arrays?

a) array_split() Your answer
b) hstack()
c) All the other 3 answers are correct
d) vstack()

Question 17:

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

a) where() Your answer
b) search()
c) find()

Question 18:

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

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

a) np.where(arr == 4) Your answer
b) arr.where()
c) arr.search(4)

Question 19:

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

a) sort() Your answer
b) order()
c) orderby()

Question 20:

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

a) random.randint(100) Your answer
b) random.rand(100)
c) random.rand()

Question 21:

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

a) random.normal(size=1000, loc=50, scale=0.2) Your answer

b) random.normal(size=1000, normal=50, s=0.1)
c) 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?

a) np.add(arr1, arr2) Your answer
b) sum(arr1, arr2)
c) np.append(arr1, arr2)

Question 23:

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

a) np.subtract(arr1, arr2) Your answer
b) np.sub(arr1, arr2)
c) np.minus(arr1, arr2)
d) np.min(arr1, arr2)

Question 24:

What is a correct method to round decimals in NumPy?

a) np.around()
b) np.fix()
c) np.trunc()
d) All the other 3 are rounding methods in NumPy Your answer

Question 25:

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

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arr = np.array([1,2,3])
print(np.cumsum(arr))
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a) [1 3 6] Your answer

b) [3 6 9]

c) [9]

d) [6]

Source: https://www.w3schools.com/quiztest/quiztest.asp?qtest=NUMPY