Congratulations! You passed!

Grade received 100% **To pass** 80% or higher

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1. What is the main data structure used in NumPy? **1 / 1 point**

- Matrix
- DataFrame
- Dictionary
- Array (selected)

Correct
Correct! NumPy primarily uses arrays to represent data.

2. How can you create a 3x3 NumPy array filled with zeros? **1 / 1 point**

- np.zeros(3, 3)
- np.full((3, 3), 0)
- np.zeros((3, 3)) (selected)
- np.empty(3, 3)

Correct
Yes, np.zeros() filled with a shape tuple creates an array of zeros.

3. What NumPy function reshapes an array? **1 / 1 point**

- np.reshape() (selected)
- np.ravel()
- np.flatten()
- np.arrange()

Correct
Correct! np.reshape() reshapes an array to new dimensions.

4. Which method splits a NumPy array into multiple sub-arrays? **1 / 1 point**

- np.divide()
- np.cut()
- np.split() (selected)
- np.section()

Correct
Right, np.split() divides an array into sub-arrays along an axis.

5. NumPy arrays must contain values that are all the _____ type. **1 / 1 point**

- same (selected)
- different
- numeric
- object

Correct
Correct! NumPy arrays are homogeneous, meaning all values must have the same type.