Introduction to NumPy

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- It is now time to learn about one of the most fundamental libraries of using Python for Quantitative Analysis - NumPy!
- NumPy is already included in the environment file provided, but just in case

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- NumPy is a numerical library for Python that allows for extremely fast data generation and handling.
- It utilizes arrays which can efficiently store data (much better than a built-in normal python list).

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- We won't dive into every single feature of NumPy in this course, it is a huge library.
- Instead we will teach you the functions and methods you will be using most often when working with quantitative data.

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- Once we understand the basics of NumPy we will be ready to move on to working with pandas, which is a data analysis library built directly off of NumPy.

- We'll be working directly with pandas more often than with NumPy, but understanding NumPy is crucial to truly mastering pandas.

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- This section will cover the following:
    - Numpy Arrays
    - Numpy Indexing and Selection
    - Numpy Operations
    - Numpy Exercise (and Solution)

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Let's get started!

NumPy Arrays

NumPy
Indexing and Selection

NumPy Operations

NumPy Exercises Solutions

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