[Data Structure Basics 1](#_Toc523843290)

[Array 1](#_Toc523843291)

[Linear 1](#_Toc523843292)

# Data Structure Basics

## Array

1. Stores data elements based on a sequential, most commonly 0 based index.
2. Based on tuples from set theory
3. They are one of the oldest and most commonly used data structures.
4. Optimal for indexing
5. Bad at searching, inserting and deleting (except at the end)

### Linear Arrays

1. One dimensional arrays are the most basic
2. Static in size, meaning that they are declared with a fixed size.