Sequence

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A **Sequence** is logically composed of three things: an array of elements, a maximum number of elements that the array may contain (i.e. its allocated size), and a logical length indicating how many of the allocated elements are valid. The length may vary dynamically between 0 and the maximum (inclusive); it is not permissible to access an element at an index greater than or equal to the length.

A **Sequence** may either “own” the memory associated with it, or it may “borrow” that memory. If a **Sequence** owns its own memory, then the sequence itself will allocate the its memory and is permitted to grow and shrink that memory (i.e. change its maximum) dynamically.

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