Slices in Go

Array	Slice
 Has a fixed length defined at compile time; The length of an array is part of its type, defined at compile time and cannot be changed; By default an uninitialized array has all elements equal to zero; 	 Has a dynamic length (it can shrink or grow); The length of a slice is not part of its type and it belongs to runtime; An uninitialized slice is equal to nil (its zero value is nil).

- Both a slice and an array can contain only the same type of elements;
- We can create a keyed slice like a keyed array;

Slice's Backing (Underlying) Array

- When creating a slice, behind the scenes Go creates a hidden array called Backing Array.
- The backing array stores the elements, not the slice.
- Go implements a slice as a data structure called slice header.

Slice Header contains 3 fields:

- 1. the address of the backing array (pointer).
- 2. the length of the slice. len() returns it.
- the capacity of the slice. cap() returns it.
- Slice Header is the runtime representation of a slice.
- A nil slice doesn't a have backing array.