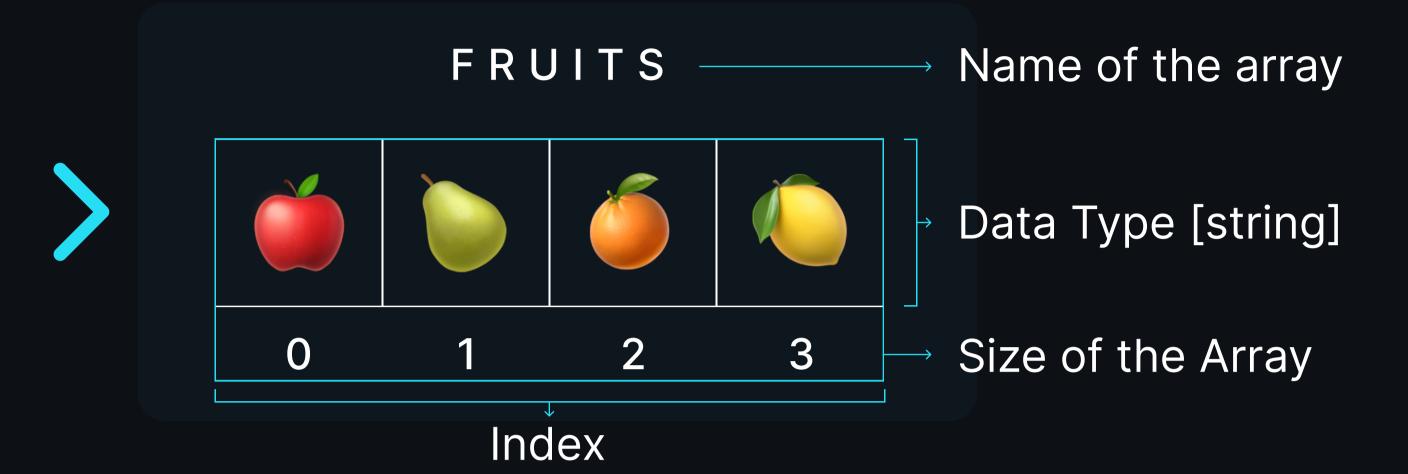




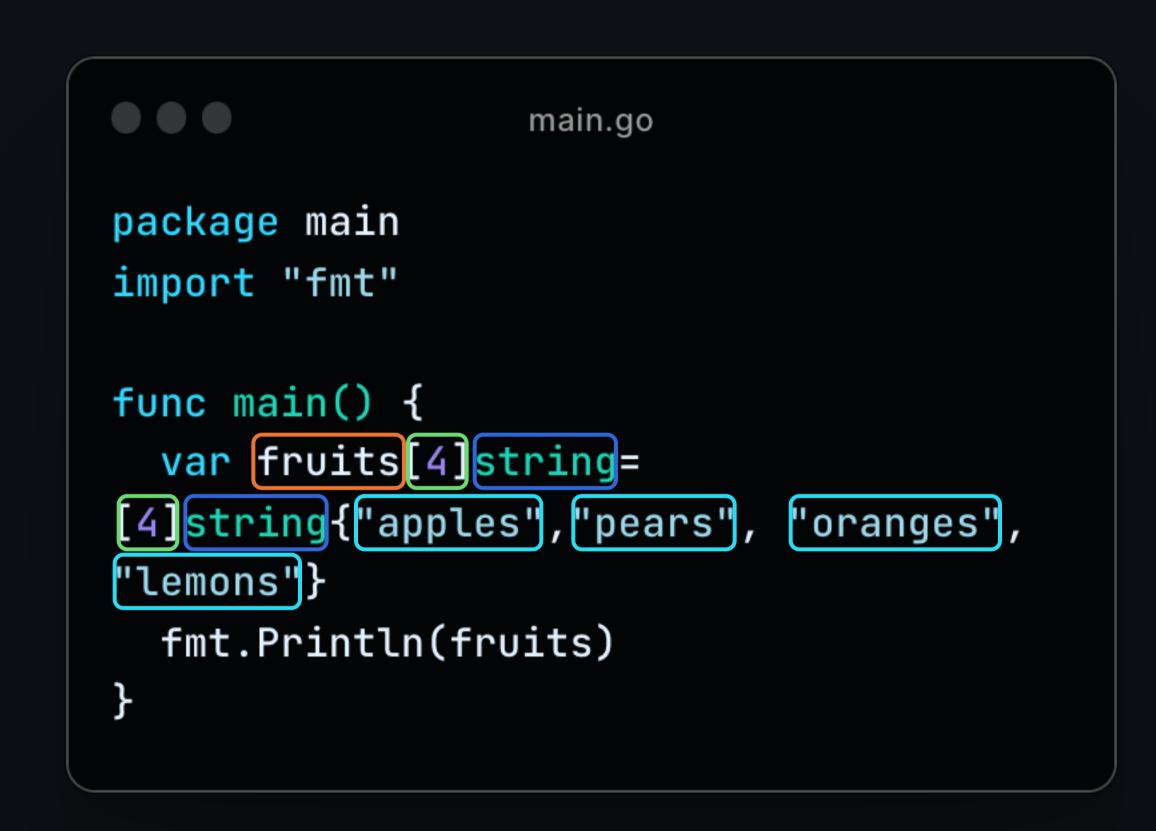
• ARRAYS SLICES MAPS

#### Arrays

An array is an ordered collection of elements, all of the same data type.



#### **Array Initialization**



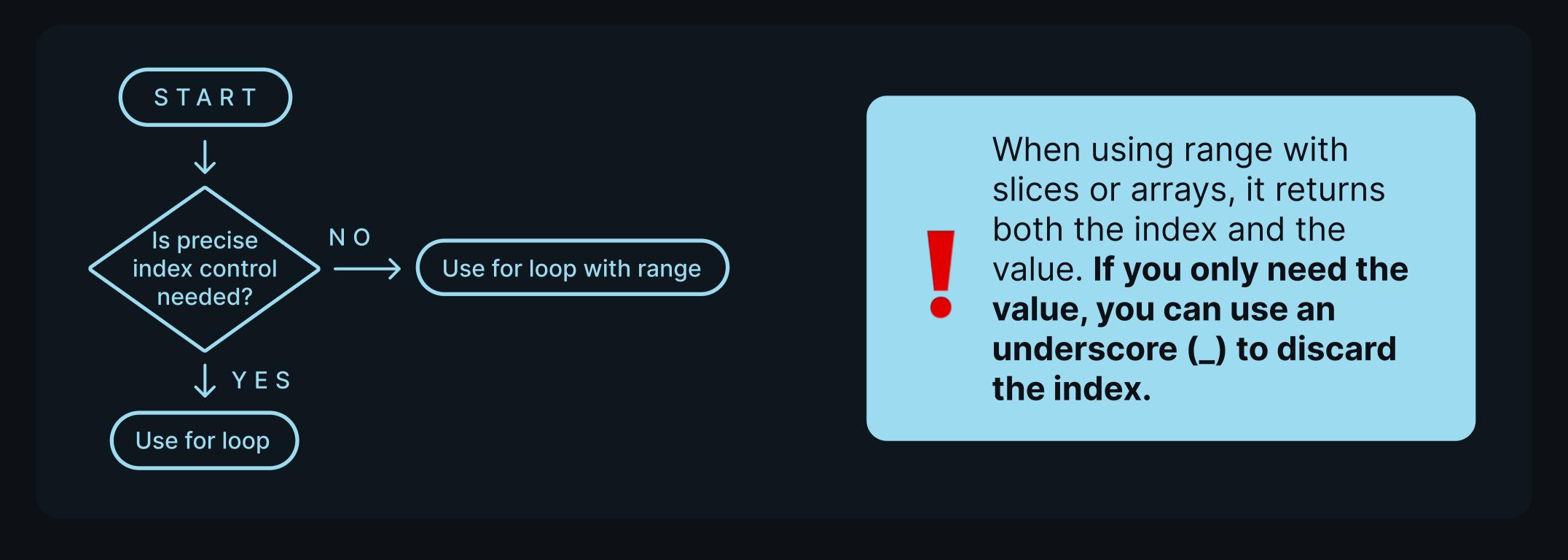
- Name of the array
- Length of the array
- Data type
- Values
- Arrays are fixed-size, once declared, the size of an array cannot be changed.

## Looping Through An Array

Looping through an array involves systematically visiting each element in the array, one at a time, to perform some operation or gather information.



# Decision Making Process





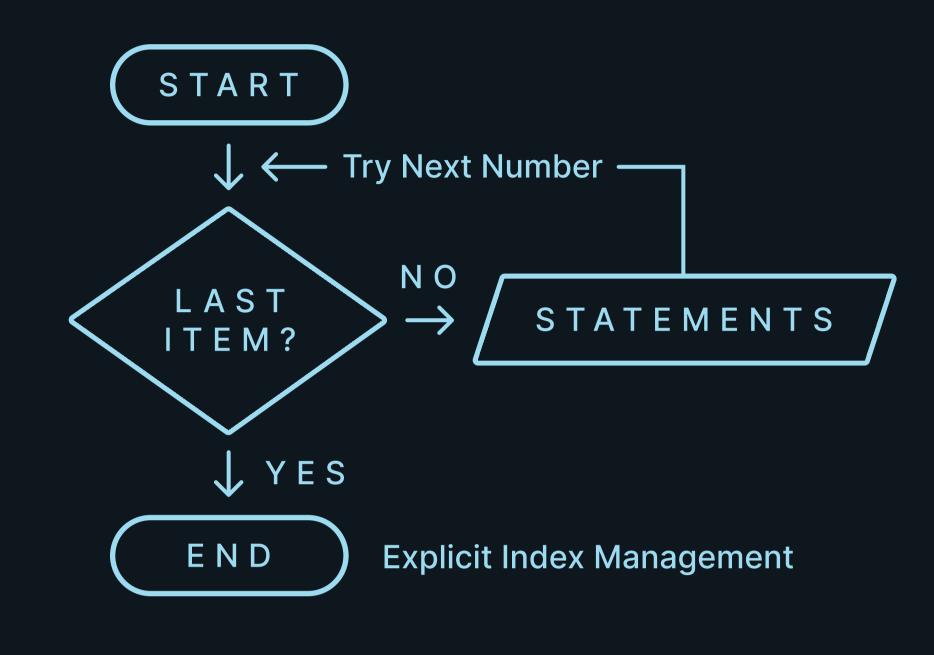




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#### How To Loop

# Using for loop

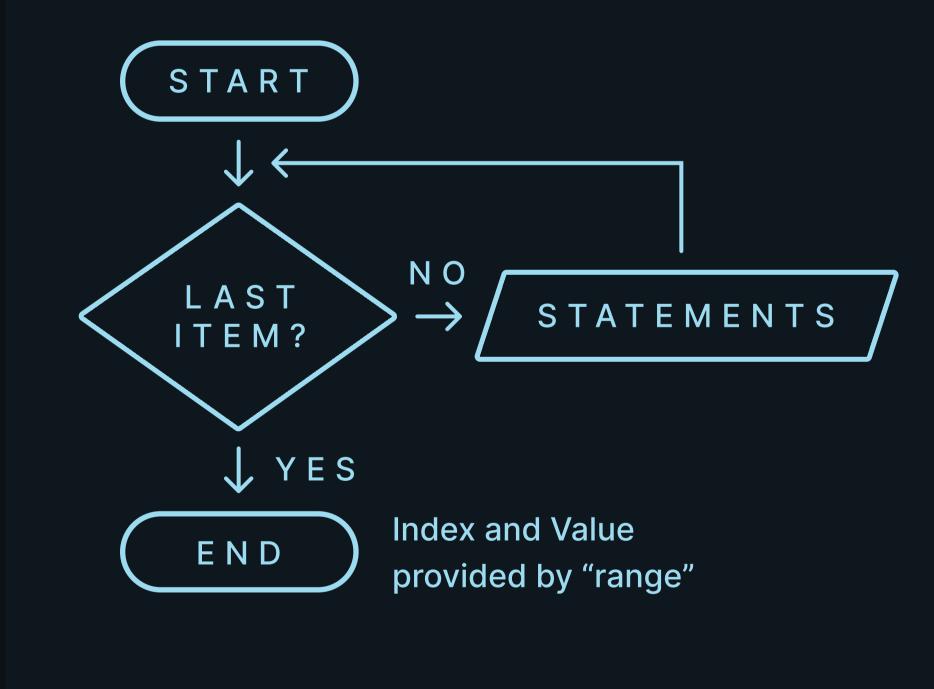


## For Loop Declaration

```
main.go
package main
import "fmt"
func main() {
  var grades [5]int = [5]int{90, 80, 70, 80, 97}
  for i := 0; i < len(grades); i++ {</pre>
    fmt.Println(grades[i])
```

- Initialization
- Post-Condition
- Condition
- Loop body

# Using Range Keyword



## Range Loop Declaration

```
main.go
package main
import "fmt"
func main() {
  var grades [5]int = [5]int{90, 80, 70, 80, 97}
  for index, element := range grades {
   fmt.Println(index, "=>", element)
```

- Variables
- Loop body
- Rage expression

## Multidimensional Arrays

A multidimensional array is an array that has more than one dimension. This concept allows you to organize data in a grid-like structure, such as a table or matrix.

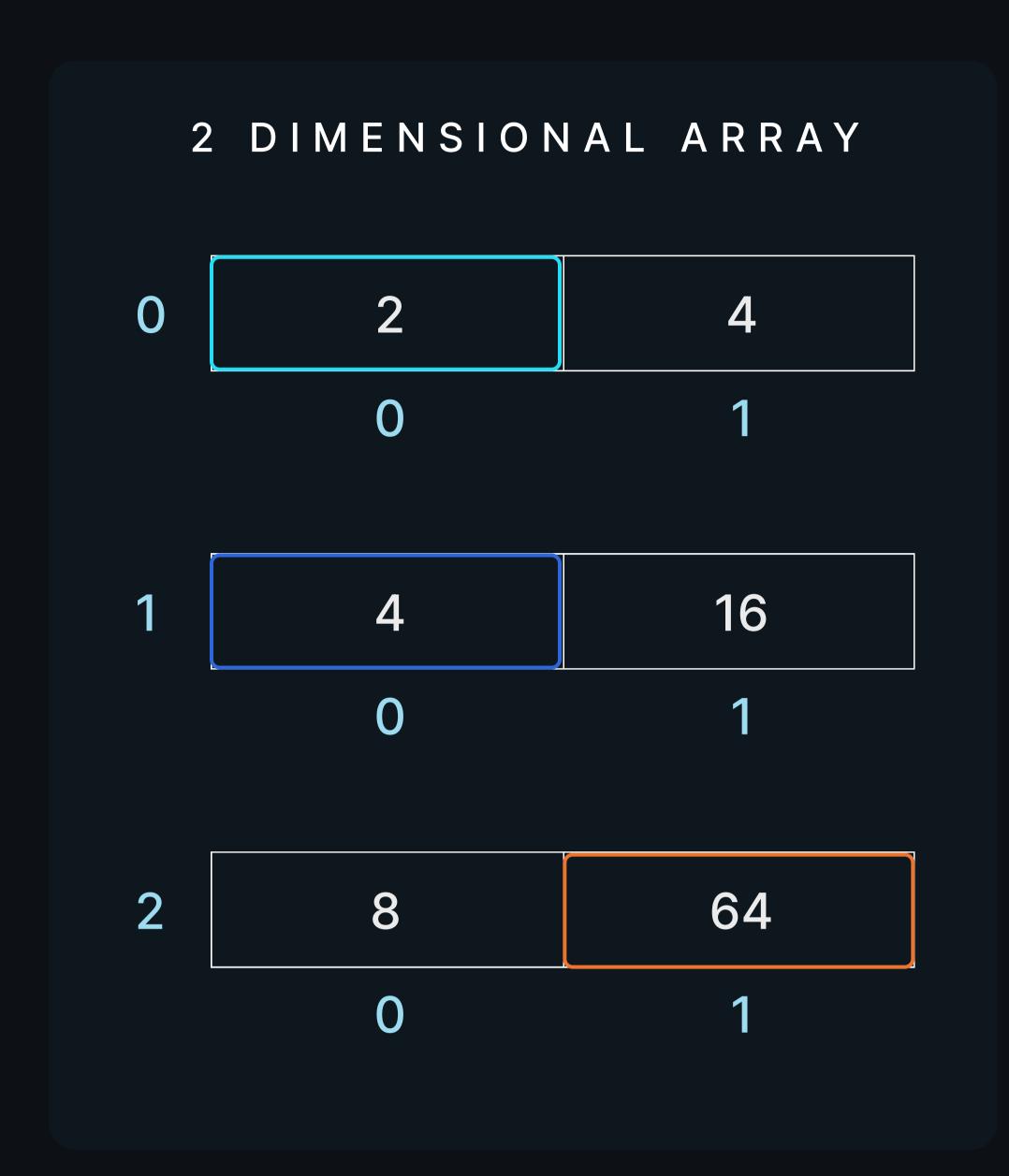


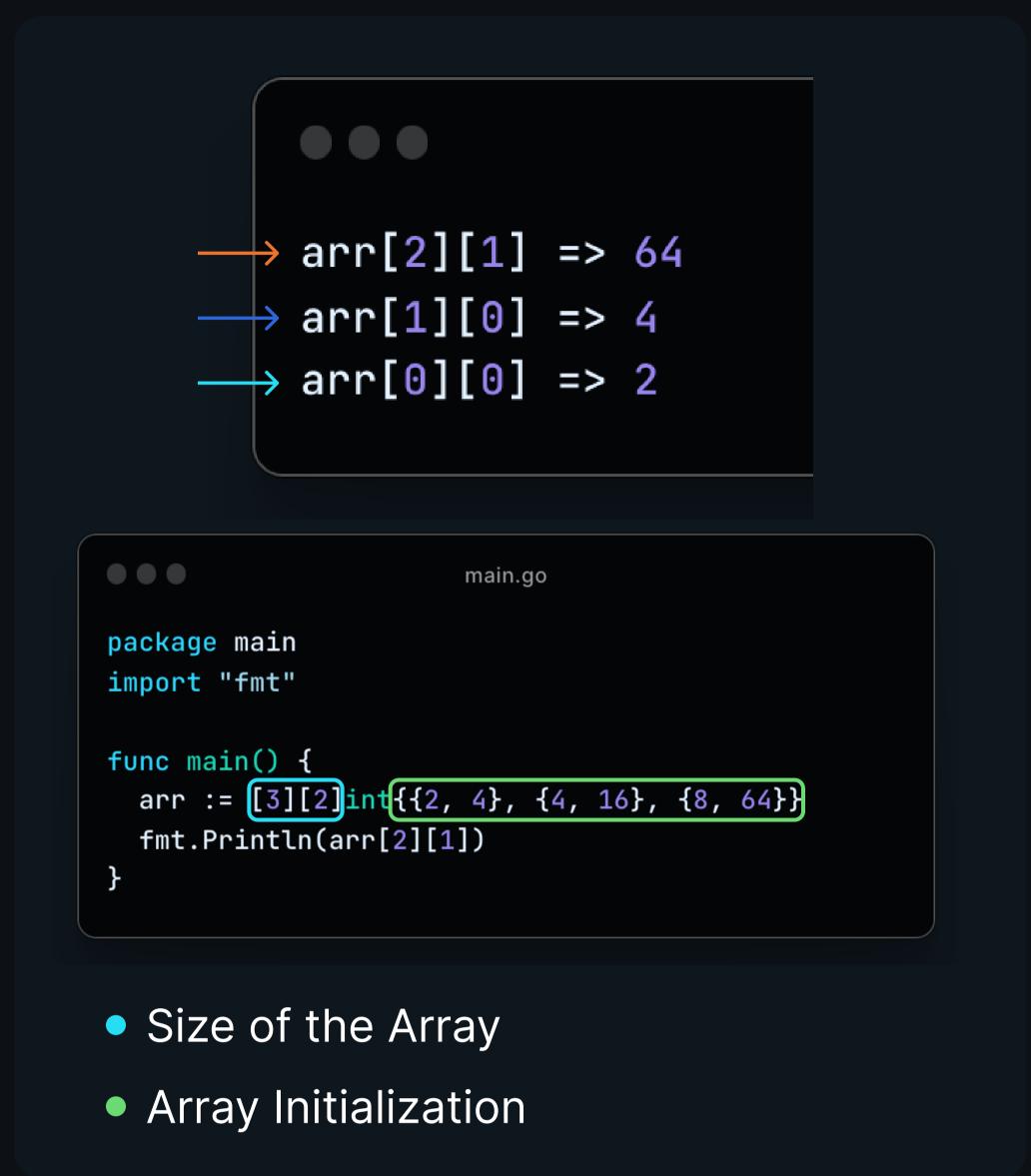




• ARRAYS SLICES MAPS

#### 2 Dimensional Arrays







Be mindful of memory usage, especially when working with large multidimensional slices, as dynamic resizing and allocation can impact memory efficiency.



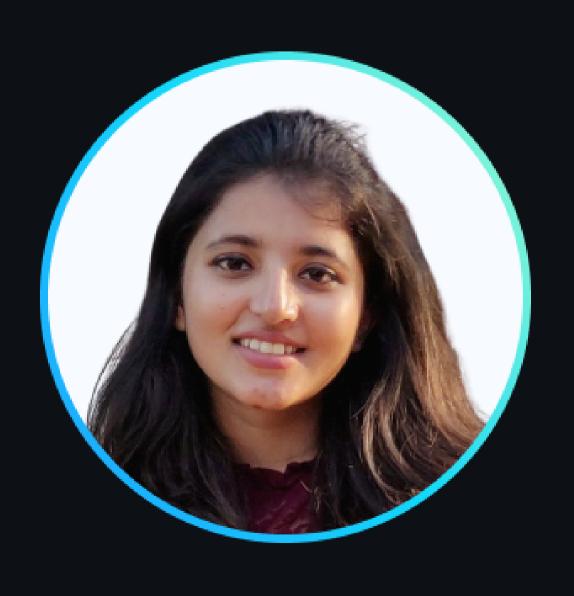
Go does not have native multidimensional arrays. Instead, you use slices of slices to create multidimensional data structures. Each slice represents a dimension.



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