

Capacity

```
func main() {  
    s := []int{1,2,3,4,5,6,7,8,9,10,11,12}  
    quarter1 := s[0:3]  
    quarter2 := s[3:6]  
    quarter3 := s[6:9]  
    quarter4 := s[9:12]  
    fmt.Println(quarter1, len(quarter1), cap(quarter1))  
    fmt.Println(quarter2, len(quarter2), cap(quarter2))  
    fmt.Println(quarter3, len(quarter3), cap(quarter3))  
    fmt.Println(quarter4, len(quarter4), cap(quarter4))  
}
```

```
[1 2 3] 3 12
```

```
[4 5 6] 3 9
```

```
[7 8 9] 3 6
```

```
[10 11 12] 3 3
```

When defining the slice, we specify its starting position and length. While the slice size is the size we specify, we can say that its capacity is open-ended.

The capacity value shows how far we can extend the Slice.

As we can see in this example, we see that our capacity value decreases as we move away from the starting point of the slice. Because all new slices referenced the same underlying array with different start point, they can extend only to end of this array.