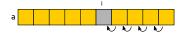
Go Slice Tricks Cheat Sheet

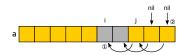
Delete



a = append(a[:i], a[i+1:]...)

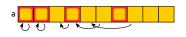
a = a[:i+copy(a[i:], a[i+1:])]

Cut (GC)



copy(a[i:], a[j:]) for k, n := len(a)-j+i, len(a); k < n; k++a[k] = nil // or the zero value of Ta = a[:len(a)-j+i]

Filter (in place)



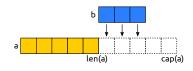
n := 0 for _, x := range a { if keep(x) { a[n] = xn++ a = a[:n]

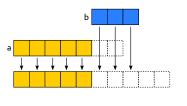
Pop Front/Shift



x, a = a[0], a[1:]

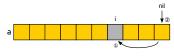
AppendVector





a = append(a, b...)

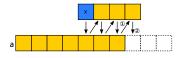
Delete without preserving order (GC)



a = a[:len(a)-1]



Insert



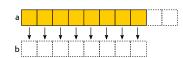
 $a = append(a[:i], append([]T{x}, a[i:]...).$

Pop



x, a = a[len(a)-1], a[:len(a)-1]

Сору



b = make([]T, len(a))copy(b, a)

b = append([]T(nil), a...)

b = append(a[:0:0], a...)

Delete (GC)

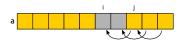
InsertVector



if i < len(a)-1 { copy(a[i:], a[i+**1**:]) a[len(a)-1] = nil // or the zero value of Ta = a[:len(a)-1]

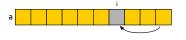
a = append(a[:i], append(b, a[i:]...)...)

Cut



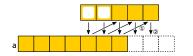
a = append(a[:i], a[j:]...)

Delete without preserving order



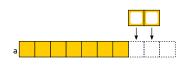
a[i] = a[len(a)-1]a = a[:len(a)-1]

Expand



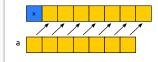
a = append(a[:i], append(make([]T, j), a[i:

Extend



a = append(a, make([]T, j)...)

Push Front/Unshift



 $a = append([]T{x}, a...)$

Push



a = append(a, x)