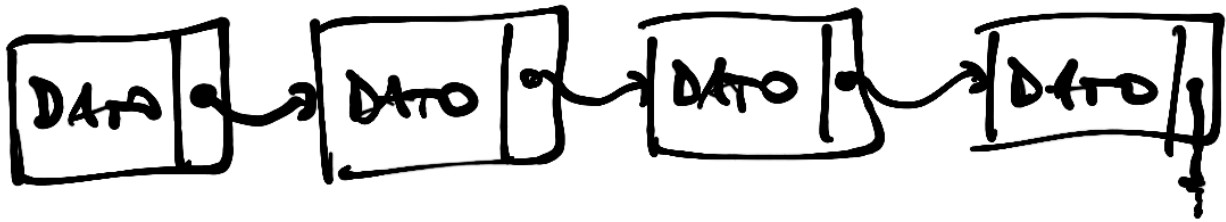


LISTE CONCATENATE SEMPLICI



LISTA DI STRINGHE

NIHS = Not
Invented
Here
Syndrome

Package list

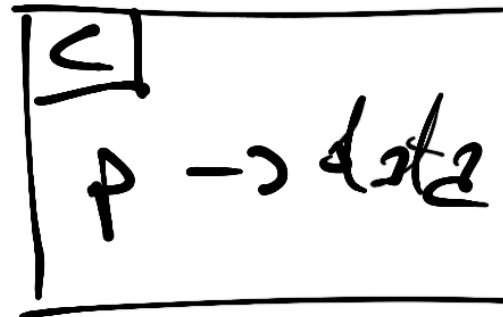
```
type Node struct {  
    data string  
    next *Node  
}
```

}

var p *Node

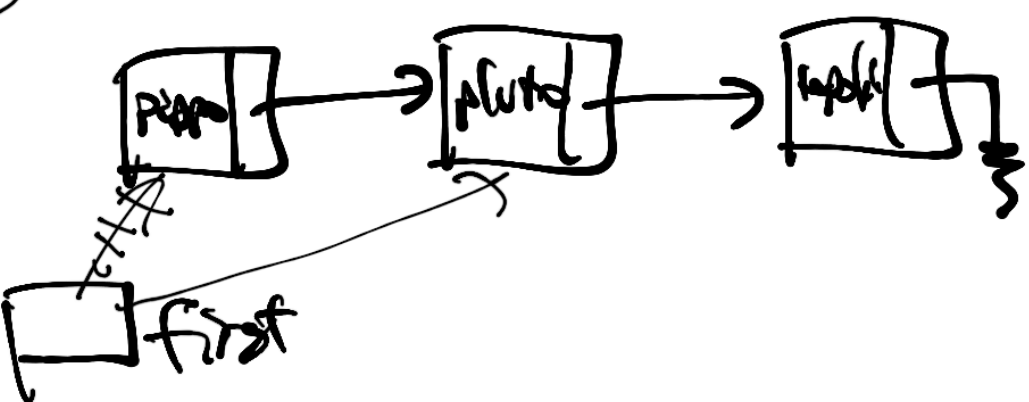
(*p).data

p.data



package list

```
func Length (first *Node) int {  
    c := 0  
    for first != nil {  
        C++  
        first = first.next  
    }  
    return c  
}
```



Package list

func AddFront (first *Node, item string)

*Node {

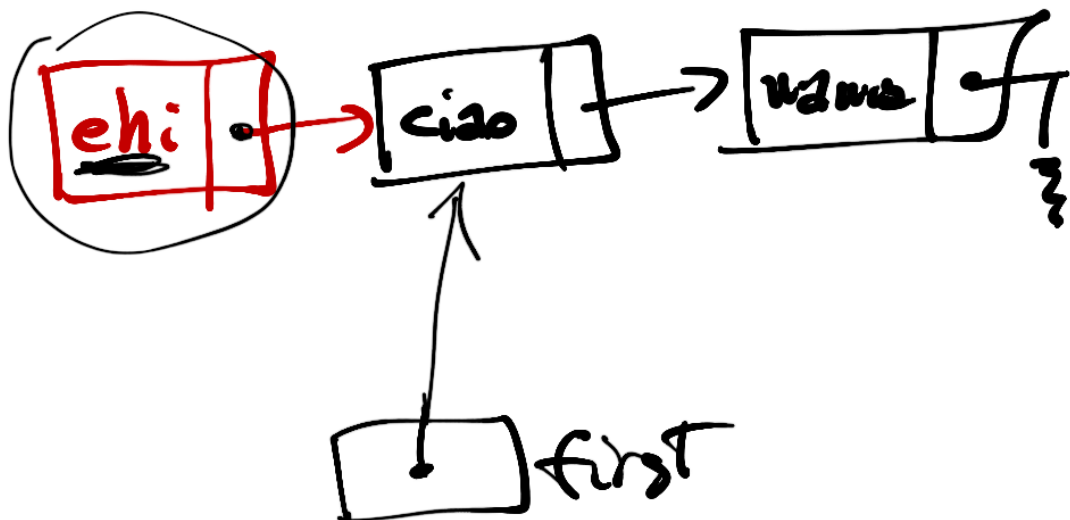
n := new (Node)

n.data = item

n.next = first

return n

}



package main

import (
 "list"
 "fun"

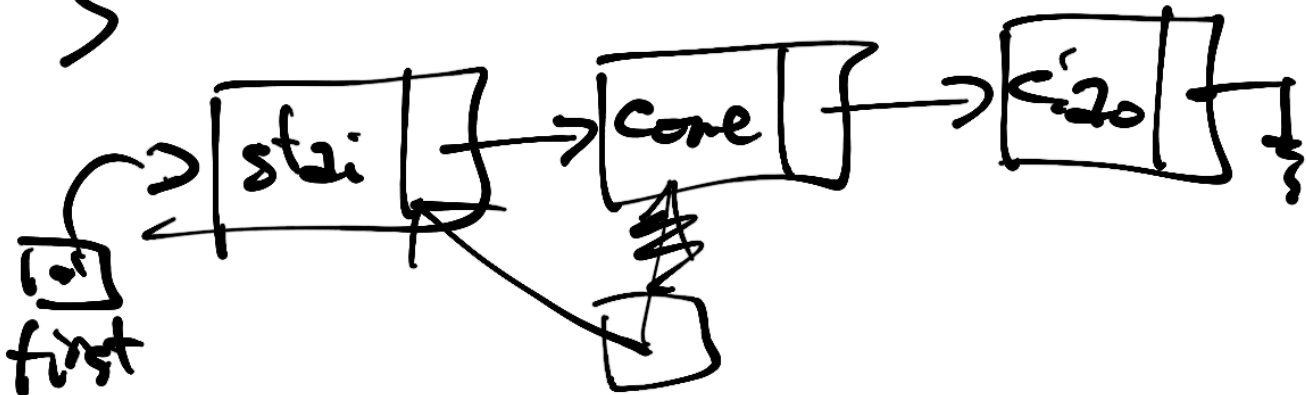
)

func

main ()

var first *list.Node
first = list.AddFront(first, "ciao")
first = list.AddFront(first, "cone")
→ first = list.AddFront(first, "stei")
fun.Println(list.Length(first))

}



package list

import "fmt"

func

PrintList(first *Node) {

for first != nil {

fmt.Println(first.data)

first = first.next

}

}

Package list

func AddTail (first *Node,
item string) *Node {

n := new (Node)

n.data = item

n.next = nil

if first = nil {
return n

curr := first

for

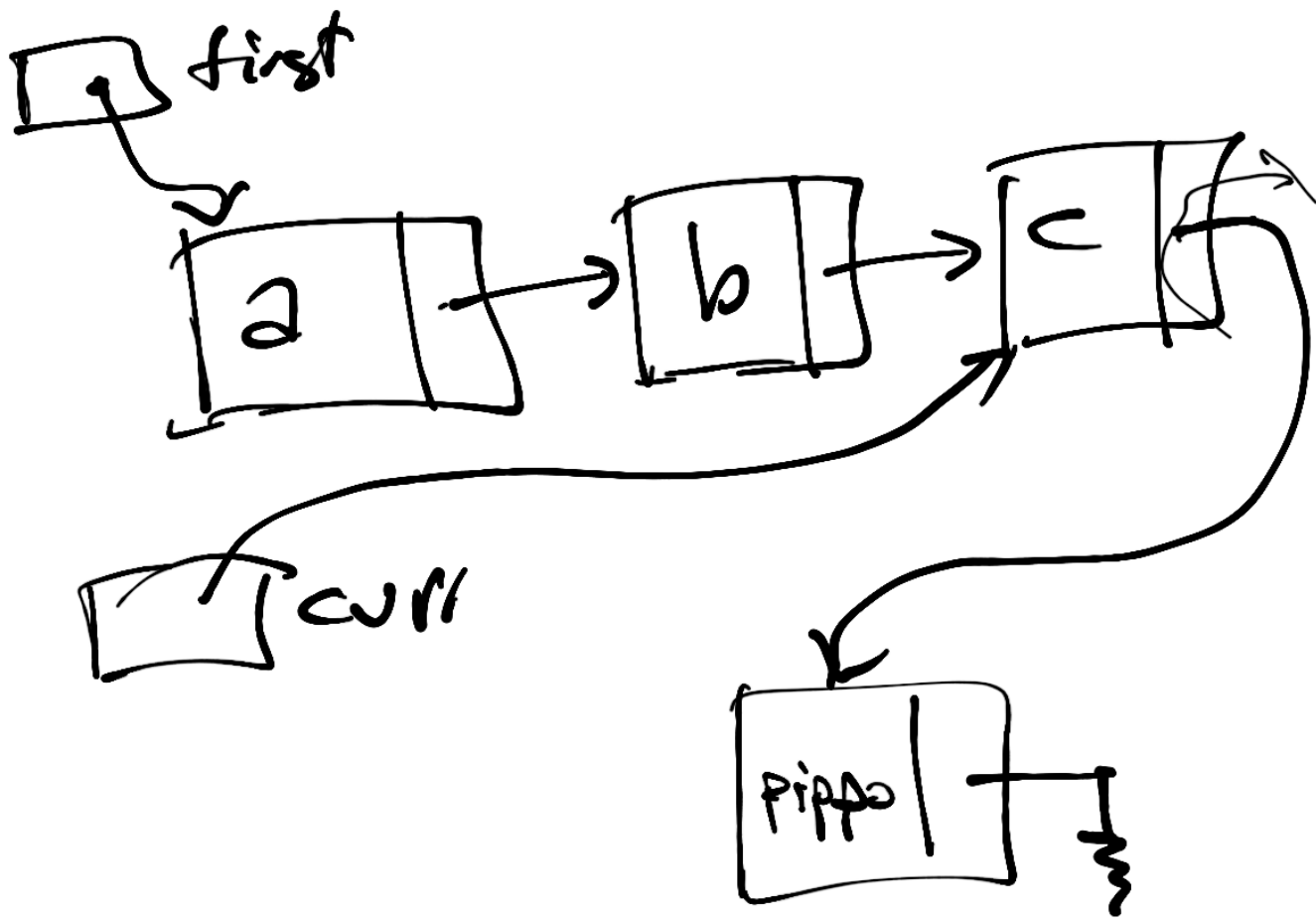
curr.next != nil {
curr = curr.next

}

curr.next = n

return first

}

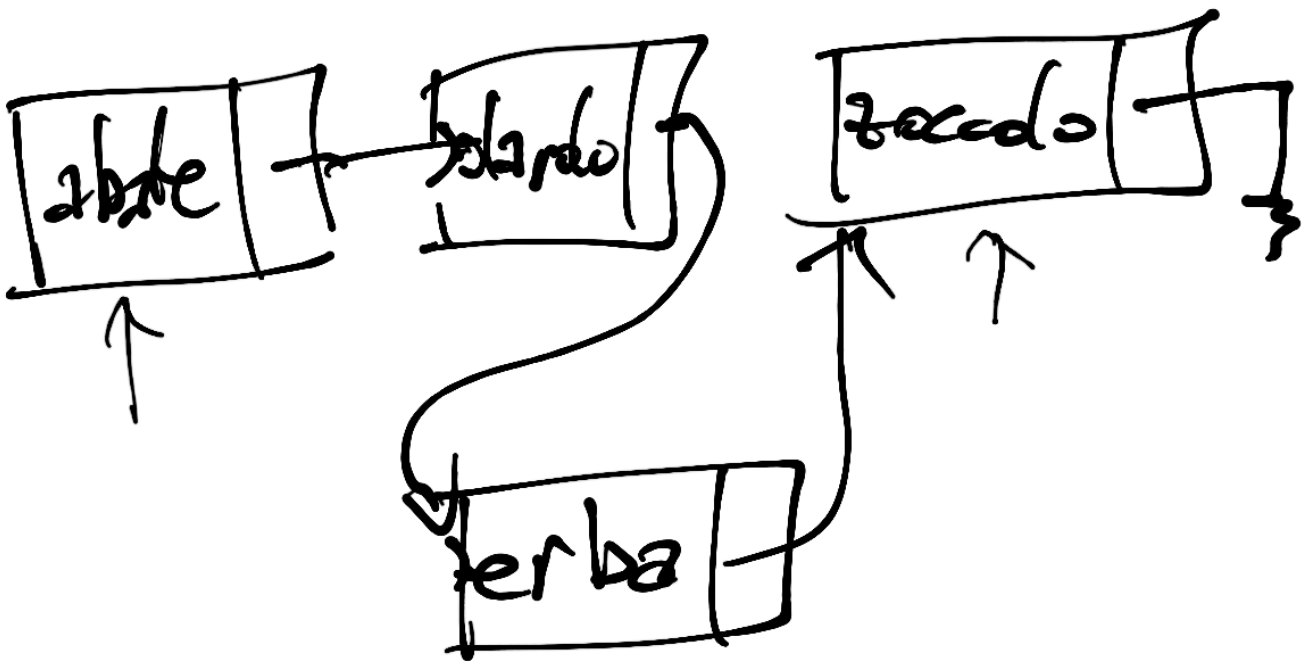


Add Tail (first, "pippo")

ABGANG
USADO

n ELEMENTE
Add Teil

$$1 + 2 + 3 + \dots + n =$$
$$= \frac{n(n+1)}{2} \approx n^2$$



adcabl

package list

func AddInOrder (first *Node,
item string) *Node {

m := new (Node)

m.data = item

if first == nil {
return m

}
var prev *Node = nil

curr := first

for curr != nil &&
curr.data < item {
prev = curr
curr = curr.next

}
if

curr == nil {
return AddTail (first, item)

Ull

}

if curr == first {
 return AddFront(first, item)
}
prev.next = n
n.next = curr
return first

}

package main

order.go

import (
"os"
"list")

func main() {
var l *list.Node
for i := 1; i < len(os.Args); i++ {
l = list.AddInOrder(l,
os.Args[i])
}
list.PrintList(l)
}

./order cane gatto amico deute
amico
cane
deute
gatto

package list

func concat(l1 *Node, l2 *Node)
*Node {

switch {

case l1 == nil:
return l2

case l2 == nil:
return l1

default :

curr := l1

for curr.next != nil {
curr = curr.next

}
curr.next = l2

return l1

}

}