p ← p↑.next → max

function countPos(l: List) → integer KAMUS LOKAL count : integer p : Address **ALGORITMA** p ← 1 count ← 0 while (p≠NIL) do if (p1.info > 0) then count \leftarrow count + 1 $p \leftarrow p1.next$ → count function max(1: List) → integer KAMUS LOKAL max : integer p : Address **ALGORITMA** p ← 1 $max \leftarrow p\uparrow.info$ while (p≠NIL) do if(p1.info > max) then $max \leftarrow p1.info$

NAMA : Muhammad Rafi' Abdurrahman

next: Address >

: 18224004

type Address: pointer to node
type Node : < info: ElType,</pre>

Latihan Soal List Berkait

type ElType: integer

type List : Address

const NIL NULL
const IDX_UNDEF -1

NIM

KAMUS UMUM

function searchPos(l : List) → Address
KAMUS LOKAL

```
ALGORITMA
p ← 1
found ← false
while (p≠NIL and not found) do
      if (p1.info > 0) then
            found ← true
      else then
            p = p1.next
if (found) then
      → p
else then
      p = NIL
      → p
procedure deleteNeg(input/output 1: List)
KAMUS LOKAL
p, temp, prev: Address
ALGORITMA
p ← 1
prev ← NIL
while(p \neq NIL) do
      if(p\uparrow.info < 0) then
            if(prev = NIL) then
                  1 \leftarrow p1.next
                  temp \leftarrow p
                  p \leftarrow p1.next
                  dealokasi(temp)
            else then
                  prev1.next ← p1.next
                  temp ← p
                  p \leftarrow p1.next
                  dealokasi(temp)
      else then
            prev ← p
            p \leftarrow p1.next
```

p: Address

found : boolean

procedure insertFirst(input/output 1: List, input val: ElType)

```
KAMUS LOKAL
p: Address
ALGORITMA
p ← newNode(val)
if p≠NIL then { alokasi berhasil }
     p\uparrow.next \leftarrow 1
     1 ← p
procedure insertLast(input/output 1: List, input val: ElType)
KAMUS LOKAL
p, last: Address
ALGORITMA
if isEmpty(1) then
      insertFirst(1,val)
else
     p ← newNode(val)
     if p≠NIL then
           last ← l
           while (last↑.next≠NIL) do { cari alamat node terakhir }
                 last ← last1.next
      {last↑.next=NIL}
     last1.next ← p
procedure copyPos(input 11: List, output 12: List)
KAMUS LOKAL
p1: Address
ALGORITMA
p1 ← 11
while(p1 \neq NIL) do
     if(p\uparrow.info > 0) then
           insertLast(12, p1.info)
     p \leftarrow p1.next
procedure insertAt(input/output 1: List, input val: ElType, input idx:
integer)
KAMUS LOKAL
ctr: integer
p, loc: Address
ALGORITMA
if idx=0 then
      insertFirst(1,val)
else
      p ← newNode(val)
     if p≠NIL then { alokasi berhasil }
           ctr ← 0
```

```
loc ← 1
            while ctr<idx-1 do
                  ctr ← ctr+1
                  loc ← loc↑.next
            {ctr=idx-1}
            pî.next ← locî.next
            loc1.next ← p
procedure sortedInsert(input/output 1: List, input x: Eltype)
KAMUS LOKAL
idx: integer
p: Address
ALGORITMA
p ← 1
idx \leftarrow 0
while(p \neq NIL \&\& p\uparrow.info < x)
      idx \leftarrow idx + 1
      p \leftarrow p1.next
insertAt(1, x, idx)
procedure updateList(input x,y: integer, input/output 1: List)
KAMUS LOKAL
p: Address
found: boolean
ALGORITMA
p ← 1
found ← false
while(p≠NIL && not found) do
      if(p\uparrow.info = x) then
            found ← true
      else then
            p \leftarrow p1.next
if(found) then
      p\uparrow.info \leftarrow y
```