

List

List tidak kosong

List of [tipe data]

List of integer ≥ 0

List of character

List of real

Dst

Selektor:

1. FirstElmt
2. LastElmt
3. Tail
4. Head

FirstElmt \rightarrow Tail

LastElmt \rightarrow Head

[9, 7, 5, 3, 10, 12]

[10, 12]

FilterGenap(L):

if IsEmpty(L) then

 []

else

 if FirstElmt(L) mod 2 = 0 then

 Konso(FirstElmt(L), FilterGenap(Tail(L)))

 else

 FilterGenap(Tail(L))

Atom

List

[8, 7, [12, 3, 5], 6, 9, [13, 15, 11]]

[8, [12], 6, []] → [8, 12, 6]

FilterGenapLoL(S):

if isEmpty(S) then

 []

else

 if isAtom(FirstList(S)) then

 if FirstList(S) mod 2 = 0 then

 KonsLo(FirstList(S), FilterGenapLoL(TailList(S)))

 else

 FilterGenapLoL(TailList(S))

 elif isList(FirstList(S)) then

 KonsLo(FilterGenap(FirstList(S)), FilterGenapLoL(TailList(S)))

Pohon N-aire



Prefix → Awal:

(7(2(8), 5(10, 9), 3(11, 13), 15))

atau

(7(2(8()), 5(10(), 9()), 3(11(), 13()), 15()))

Postfix → Setelah:

((((8)2, (11, 13)3, (10, 9)5, 15)7)

Infix → tengah tengah:

((()2(8), (10)5(9)) 7 ((11)3(13), ()15()))

Tree → <akar: elemen, anak: list of Tree>

[7, [[2, [[8, []]], [5, [[10, []], [9, []]], [3, [[11, []], [13, []]], [15, []]]]]

IMNChild: Pohon N-aire(P), elemen(X) → boolean

if isEmpty(P) then

False

else

IsMemberNode(FirstElmt(P), X) or IMNChild(Tail(P), X)

IsMemberNode: Pohon N-aire (P), elemen(X) → boolean

Misal X = 15

if isEmpty(P) then

false

else

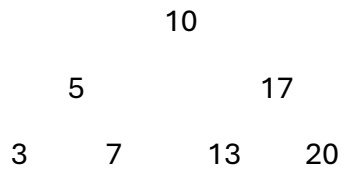
if Akar(P) = X then

true

else

IMNChild(Anak(P))

Pohon Biner



Prefix:

(10 (5(3)(7)) (17(13)(20)))

Infix:

((3)5(7))10((13)17(20))

Postfix:

((3)(7)5)((13)(20)17)10

BST:

Anak dari Akar sebelah Kiri < Akar

sebelah Kanan > Akar

lambda

fungsi kecil

Max2(a, b):

$$(a + b + \text{abs}(a-b)) / 2$$

$$\lambda x,y.(x + y + \text{abs}(x - y)) / 2$$

LIST = [7, 8, 10, 2, 16, 5, 4, 9]

FilterList(L, F):

if isEmpty(L) then

 []

else

 if F(FirstElmt(L)) then

 Konso(FirstElmt(L), FilterList(Tail(L), F))

 else

 FilterList(Tail(L), F)

FilterList(LIST, $\lambda x.x \bmod 2 = 0$)

FilterList(LIST, $\lambda x.x > 5$)