

PEMBAHASAN UAS DASPRO 2016/2017

No. 1

IsPrima	IsPrima (X)
DEF SPEK IsPrima (X) : integer \rightarrow boolean {...} NbFaktor (A, N) : 2 integer \rightarrow integer {Menghasilkan banyaknya faktor dari bilangan N dengan nilai A adalah 1}	
REALISASI IsPrima (X) : If NbFaktor (1, X) = 2 then True Else False NbFaktor (A,N) : Depend on : A = N : 1 N mod A = 0 : 1 + NbFaktor (A+1, N) Else NbFaktor (A+1, N)	

No. 2

Hapus Semua Elemen	DropElmt (L)
DEF SPEK DropElmt (L) : List \rightarrow List kosong {...}	
REALISASI DropElmt (L) : If IsEmpty then L Else DropElmt (Tail L)	

No. 3

Membuat List Terurut	MakeSortList (L)
DEF SPEK	
MakeSortList (L) : List \rightarrow List {...}	
Min (L) : List \rightarrow elemen {mencari elemen terkecil pada list}	
REALISASI	
MakeSortList (L) : If IsEmpty then L Else Konso ((Min L) (MakeSortList ((Rember (Min L)) L)))	
Min (L) : If NbElmt = 1 then car L Else If (car L) < (Min (cdr L)) then car L Else Min (cdr L)	

No. 4

Make Difference	MakeDifference (H1, H2)
DEF SPEK	
MakeDifference (H1, H2) : List \rightarrow List {...}	
REALISASI	
MakeDifference (H1, H2) : Depend on H1, H2 IsEmpty (H1) and IsEmpty (H2) : [] Not IsEmpty (H1) and IsEmpty (H2) : H1 IsEmpty (H1) and not IsEmpty (H2) : [] Not IsEmpty (H1) and not IsEmpty (H2) : {rekurens} If (not (IsMember (FirstElmt (H1), H2))) then Konso (FirstElmt (H1), MakeDifference (Tail (H1), H2)) Else MakeDifference (Tail (H1), H2)	

No. 5

Sum List of List	SumLoL (S1 S2)
DEF SPEK	
SumLoL (S1 S2) : 2 List of List \rightarrow List of List {...}	
IsEqS (S1 S1) : 2 List of List \rightarrow Boolean {true jika S1 identik dengan S2}	
REALISASI	
SumLoL (S1, S2) : If IsEqS(S1,S2) then If IsAtom(FirstList S1) and IsAtom(FirstList S2) then Konso (((FirstList S1) + (FirstList S2)) (SumLoL (TailList S1),(TailList S2))) Else KonsLo ((SumLoL (FirstList S1),(FirstList S2)) (SumLoL (TailList S1),(TailList S2)))	

No. 6

Reverse Tree	ReverseTree (P)
DEF SPEK	
ReverseTree (P) : Pohon tidak kosong \rightarrow Pohon {...}	
REALISASI	
ReverseTree (P) : If IsEmpty (P) then nil Else Konso ((Akar P) (Konso ((ReverseTree (Right P)) (Konso ((ReverseTree (Left P)) (nil))))))	

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