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That Hasanain Akmal (103032330054) IT-47-KH9
( a.) buatlah deklaras; dari list dari liked list di otos.
  type infotype : areal
  type adr i pointer to Elnhist
  type ElmList (
   info: infotype
    next: adr
  type List 4
   first : adr
  b.) Procedure CreateList (in lout L: List)
  kamus
  Algoritma
  L. first: NULL
  endprocedure
  c.) Procedure New Elm (in X: infotype; out P: adr)
  kamus
  Algoritma
    allocate (P)
    P->info = X
    P->next = NULL
 endprocedure
 d.) Procedure Insert Ascending (in lout Likist, in P: adr)
 kamus
   Q,R: adr
Algoritma
   Q = MULL
   P = L. first
   while R != NULL and P->info > R->info do
       Q = R
       R = R-> next
   endwhile
```

That Haganain Akmal 103032330099 1T-A7-KHS if Q != NULL then P-> next = Q-> next Q > next = P else P-> next = L.first L.first=P endif end pro cedure 2) a.) Function search (L: List, X: infotype) -> adr kamus P: adr Algoritma P = Lifirst while P != NULL and P-> info!= X do P = P->next enduhile return P endfuction b.) Procedure delete (in/out L: List, in X: infotype, out P:adr) Kamus search (L: List, X: into type) -> adr Q: adr Algoritma P = search (L, X) if P == NULL then output (" Tidak ada" else if P->next == NULL then P = delete Last (LD, P) else if P== Lifirst then P = delete first (L,P) e/5e Q = P P = delete After (L,Q) end procedure

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That Hasanain Akmal (03032370059 17-47-KHS
Procedure deleteFirst (in/out Likist, out Piadr)
Kamus
Algoritma
   Lifitst = p -> next
   P->next = MULL
endprocedure
Procedure delete Last (in/out L: List, got P: adr)
kamus
  a:adr
Algoritma
  if Lifirst == MULL then
     P= NULL
  selse if (L.first -> next == NULL) then
      P= Lift
      Lifitst = NULL
  else
      P = Lfirst
     Q = Lfirst
         while ( Panext != MULL do
          P=P->next
         enduhile
          Q-7 next = NULL
  enmadif
endprocedure
Procedure deleteAfter Cin/out L: List, Q: adr)
Kamus
  P:adr
Algoritma
P = Q -> next
  Q -> next =p-> next
  P-> next = MULL
endprocedure
```