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**PSEUDOCODE TUGAS 7**

**Latihan 1**

T <- [0,0,0,...,0] {inisiasi array int ukuran 20}

i traversal [0,20] {isi array oleh user}

input(T[i])

input(X)

i traversal [0,20]

T[i] <- T[i] \* X

output(T)

**Latihan 2**

N <- [‘’, ‘’, ‘’,..., ‘’] {inisiasi array char ukuran 50}

lulus <- 0

tidaklulus <- 0

i traversal [0, 50]

input(N[i])

if (N[i] = ‘D’ or N[i] = ‘E’) then

tidaklulus <- tidaklulus + 1

else {N[i] != ‘D’ and N[i] != ‘E’}

lulus <- lulus + 1

output(lulus)

output(tidaklulus)

**Latihan 3**

input(t)

T <- [0, 0, 0,..., 0] {inisiasi array int ukuran t}

input(T[0])

mini <- T[0]

i traversal [1,t]

input(T[i])

if (T[i] < mini) then

mini = T[i]

output(mini)

**Latihan 4**

input(N)

T <- [0, 0, 0,..., 0] {inisiasi array int ukuran N}

i traversal [0,N]

input(T[i])

input(X)

i <- N – 1

found <- False

while (i >= 0 and found = False) do

if (T[i] = X) then

found <- True

else {T[i] != X}

i <- i – 1

{i < 0 or found = True}

output(i)

**Latihan 5**

{inisiasi array/vektor int ukuran 5}

W <- [0, 0, 0, 0, 0]

V <- [0, 0, 0, 0, 0]

U <- [0, 0, 0, 0, 0]

i traversal [0,5]

input(U[i])

i traversal [0,5]

input(V[i])

i traversal [0, 5]

W[i] <- U[i] + V[i]

output(W)

**Latihan 6**

S <- [0,0,0,...,0] {inisiasi array int ukuran 30}

i traversal [0, 30]

input(S[i])

terendah <- S[0]

jumlah <- 0

found <- -1

lebih30 <- 0

i traversal [0, 30]

jumlah <- jumlah + S[i]

if (S[i] < terendah) then

terendah <- S[i]

if (S[i] < 15 and found = -1) then

found = i

if (S[i] >= 30) then

lebih30 <- lebih30 + 1

output(jumlah/30)

output(terendah)

if (lebih30 != 0) then

i traversal [0, 30]

if (S[i] > 30) then

output(i+1) {print tanggal berapa suhu lebih dari 30}

else {lebih30 = 0}

output(“suhu tidak pernah lebih dari 30”)

if (found != -1) then

output(found)

else {found = -1}

output(“suhu tidak pernah kurang dari 15”)

**Eliminasi Gauss-Jordan**

A <- [[0,0,0,0,0,0], [0,0,0,0,0,0], [0,0,0,0,0,0]] {inisiasi matriks 3x6}

i traversal [0,3]

j traversal [0,3]

input(A[i][j])

{ Menambahkan augmented matrix}

i traversal [0,3]

j traversal[0,3]

if (i = j) then

A[i][j+3] = 1

{eliminasi Gauss-Jordan}

i traversal [0,3]

j traversal [0,3]

if (i != j) then

rasio <- A[j][i]/A[i][i]

k traversal [0,6]

A[j][k] <- A[j][k] – rasio \* A[i][k]

i traversal [0,3]

bagi <- A[i][j]

j traversal [0,6]

A[i][j] <- A[i][j] / bagi

{cetak hasil inverse A}

i traversal [0,3]

j traversal [0,3]

output(A[i][j])