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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])
```