Pembahasan UTS Struktur Data 2019/2020

2.

Procedure GeserPosisi(input BarisKe: integer, inupt, BanyakMhs: integer, output KolomAwal: integer, output KolomAkhir: integer)

Kamus lokal

Algoritma

      if (BanyakMhs < 20) then

            KolomAwal <- (20 – 2) / 2 +1

            KolomAkhir <- KolomAwal – 1 + BanyakMhs

      else

            KolomAwal <- 1

            KolomAkhir <- 20

3.

Procedure PushIjazah(input/output S: stackIjazah, input M: Mahasiswa)

Kamus lokal

      i, j: integer

Algoritma

      i traversal [0..S.top]

            if (M.IPK >= S.wadah.IPK) then

                S.top <- S.top + 1

                j traversal [S.top...i+1]

                    S.wadah[j] <- S.wadah[j – 1]

                S.wadah[i] <- M

          else

                S.top <- S.top + 1

                S.wadah[S.top] <- M

4.

Procedure DequeWisudawan(input/output Q: queueMhs, output M: Mahasiswa)

Kamus Lokal
i: integer

Algoritma

      if (isEmpty(Q)) then

            print "Queue Kosong"

      else

            M <- Q.wadah[Q.head]

            Q.wadah[Q.head] <- Nil

            if (Q.head = Q.tail) then

                Q.head <- Nil

                Q.tail <- Nil

<u>else</u>
    Q.head <- Q.head + 1

    <u>if</u> ((20 – Q.tail) – Q.head ≥ 2) <u>then</u>
      i traversal [Q.head-1..Q.tail]
        Q.wadah[i] <- Q.wadah[i + 1]

      Q.wadah[Q.tail] <- Nil
      Q.head <- Q.head – 1
      Q.tail <- Q.tail - 1