Jawaban Tugas 01

Nomor 1.

Asumsi segitiga yang diinput titik-titiknya tidak ada yang berada pada satu garis lurus, sehingga tidak diperlukan validasi untuk memastikan ketiga titik tidak berada pada suatu garis. Variabel s belum bertipe data array segitiga.

```
Program BangunSegitiga
{ Membaca dan mencetak data segitiga}
Kamus:
      type titik: <
            x : real,
            y : <u>real</u>;
      type segitiga: <
            t1: titik,
            t2: titik,
            t3: titik
      s: segitiga
      t1x, t1y, t2x, t2y, t3x, t3y: real
      {Daftar prototype fungsi dan procedure}
      function isValid(ax, ay, bx, by, cx, cy : real) → boolean
      procedure isiDataSegitiga(input ax, ay, bx, by, cx, cy : real, input/ouput: s : segitiga)
      procedure cetakDataSegitiga(input s: segitiga)
Algoritma:
      input(ax, ay, bx, by, cx, cy)
      if isValid(ax, ay, bx, by, cx, cy) then
            isiDataSegitiga(ax, ay, bx, by, cx, cy, s)
            cetakDataSegitiga(s)
      else output('Tidak ada segitiga')
      {end if}
```

```
<u>function</u> isValid(ax, ay, bx, by, cx, cy : real) \rightarrow <u>boolean</u>
```

{Menerima masukan tiga titik dan mengembalikan nilai <u>true</u> jika titik-titik itu tidak berada pada posisi yang sama}

Kamus:

```
Algoritma:

if ax = bx and ay = by then

if ax = cx and ay = cy then

if ax = cx and ay = cy then

if bx = cx and by = cy then

if bx = cx and by = cy then

if bx = cx and by = cy then

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if bx = cx and by = cy then

if b
```

```
Procedure isiDataSegitiga(input ax, ay, bx, by, cx, cy : real, input/ouput: s : segitiga)
{IS: s tidak terisi
FS: S terisi}

Kamus:
{ Tidak ada kamus }

Algoritma:

s.t1.x ← ax
s.t1.y ← ay
s.t2.x ← bx
s.t2.y ← by
s.t3.x ← cx
s.t3.y ← cy
```

```
Program DataPribadiOrang
{Membaca dan mencetak data pribadi orang}
Kamus:
     type tipeNama: <
            nama_depan: string,
            nama tengah: string,
            nama_belakang: string
     type dataOrang: <
            nama: tipeNama,
            alamat: string,
            negara: string,
            kodePos: string
     const Nmaks = 100
     a: array [1..Nmaks] of dataOrang {Deklarasi variabel dengan tipe array dataOrang}
Algoritma:
     {Contoh pengisian langsung dari code }
     a[1].nama.nama depan ← "John"
     a[1].nama.nama\_tengah \leftarrow "F"
     a[1].nama.nama_belakang ← "Kurniawan"
     a[1].alamat ← "Jl. Budhi IX No. B/18"
     a[1].negara ← "Indonesia"
     a[1].kodePos ← "11530"
     output(a[1].nama.nama_depan)
     output(a[1].nama.nama_depan)
     output(a[1].nama.nama tengah)
     output(a[1].nama.nama_belakang)
     output(a[1].alamat)
     output(a[1].negara)
     output(a[1].kodePos)
```