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IF-44-04

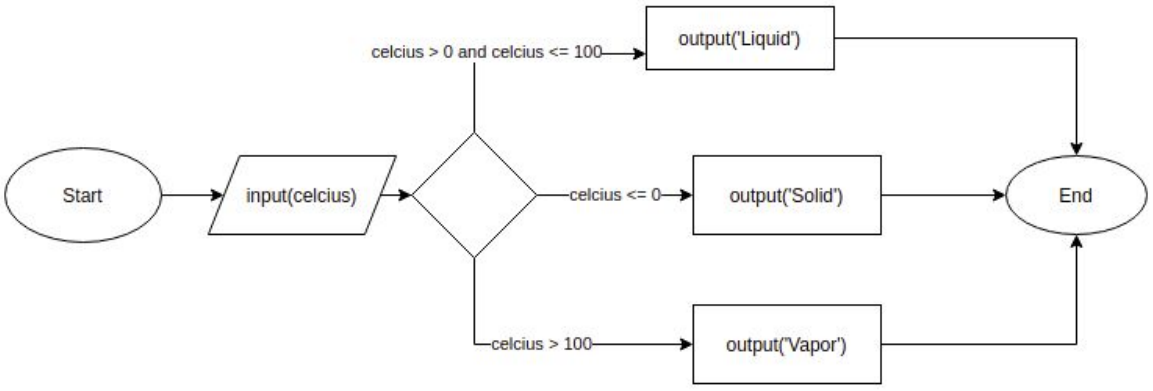
TUGAS ALGORITMA PEMROGRAMAN TUGAS 2B

1. Suhu

Pseudocode

```
program suhu
kamus
  celcius: integer
algoritma
  input(celcius)
  if celcius <= 0 then
    output("Solid")
  else if celcius > 0 and celcius <= 100 then
    output("Liquid")
  else if celcius > 100 then
    output("Vapor")
  endif
endprogram
```

Flowchart

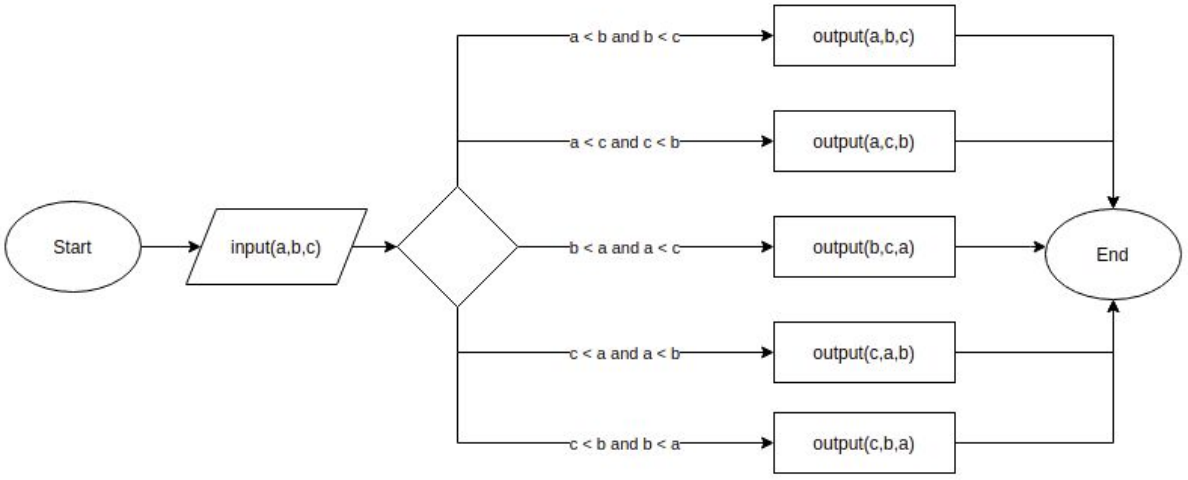


2. Number

Pseudocode

```
program number_asc
kamus
 a,b,c: integer
algoritma
 input(a,b,c)
 if a < b and b < c then
   output(a,b,c)
 else if a < c and c < b then
   output(a,c,b)
 else if b < a and a < c then
   output(b,a,c)
 else if b < c and c < a then
   output(b,c,a)
 else if c < a and a < b then
   output(c,a,b)
 else if c < b and b < a then
   output(c,b,a)
 endif
endprogram
```

Flowchart

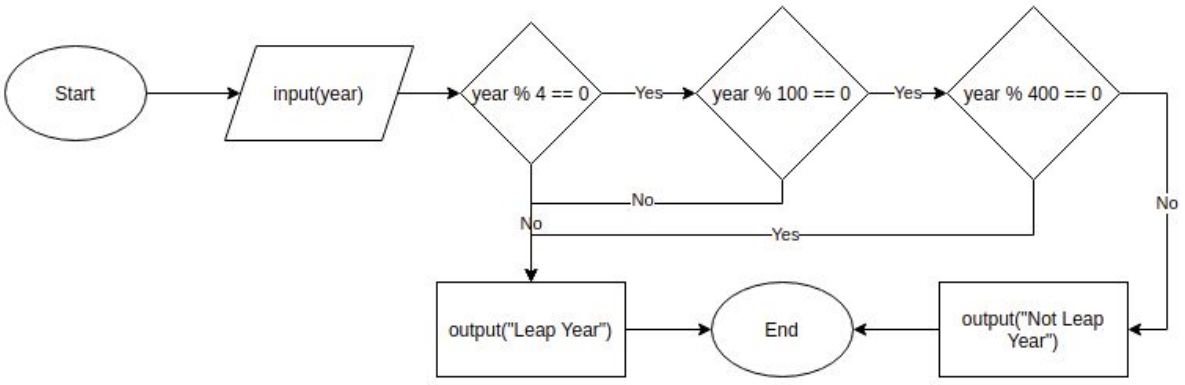


3. Leapyear

Pseudocode

```
program leapyear
kamus
   year : integer
algoritma
   input(year)
   if year mod 4 == 0 then
      if year mod 100 == 0 then
         if year mod 400 == 0 then
            output("Leap Year")
         else
            output("Not Leap Year")
         endif
      else
         output("Leap Year")
      endif
   else
      output("Leap Year")
   endif
endprogram
```

Flowchart

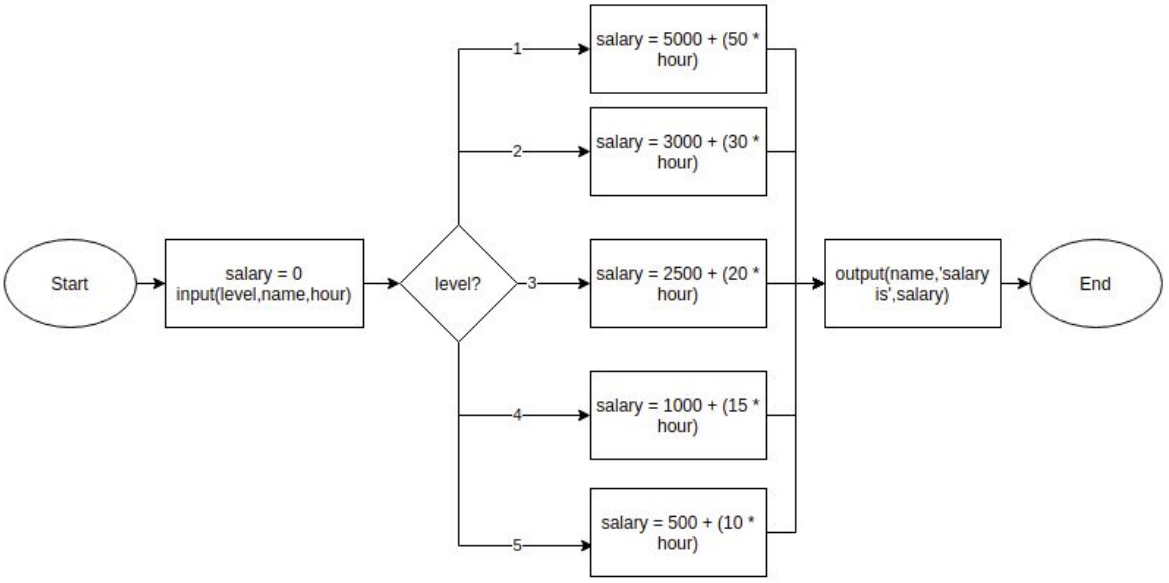


4. Salary

Pseudocode

```
program salary
kamus
   name:string
   salary,level,hour:int
algoritma
   input(level,name,hour)
   depend on level
      level = 1 : salary = 5000 + (50 * hour)
      level = 2 : salary = 3000 + (30 * hour)
      level = 3 : salary = 2500 + (20 * hour)
      level = 4 : salary = 1000 + (15 * hour)
      level = 5 : salary = 500 + (10 * hour)
   endDependon
   output(name,'salary is',salary)
endprogram
```

Flowchart

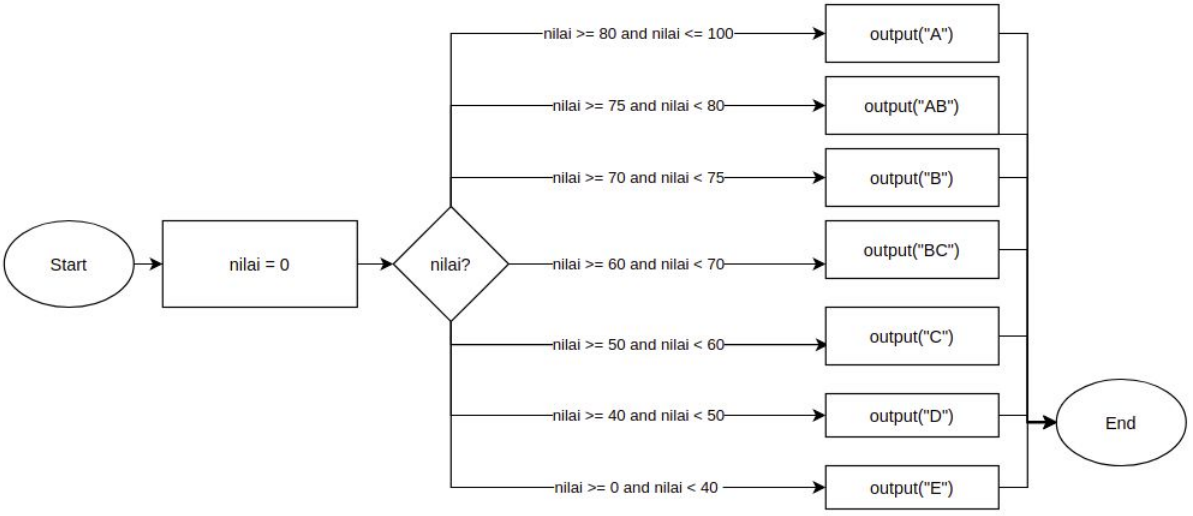


5. **Nilai**

Pseudocode

```
program nilai_matkul
kamus
   nilai : integer
algoritma
   depend on nilai
      nilai >= 80 and nilai <= 100  : output("A")
      nilai >= 75 and nilai < 80    : output("AB")
      nilai >= 70 and nilai < 75    : output("B")
      nilai >= 60 and nilai < 70    : output("BC")
      nilai >= 50 and nilai < 60    : output("C")
      nilai >= 40 and nilai < 50    : output("D")
      nilai >= 0 and nilai < 40     : output("E")
   endDependon
endprogram
```

Flowchart



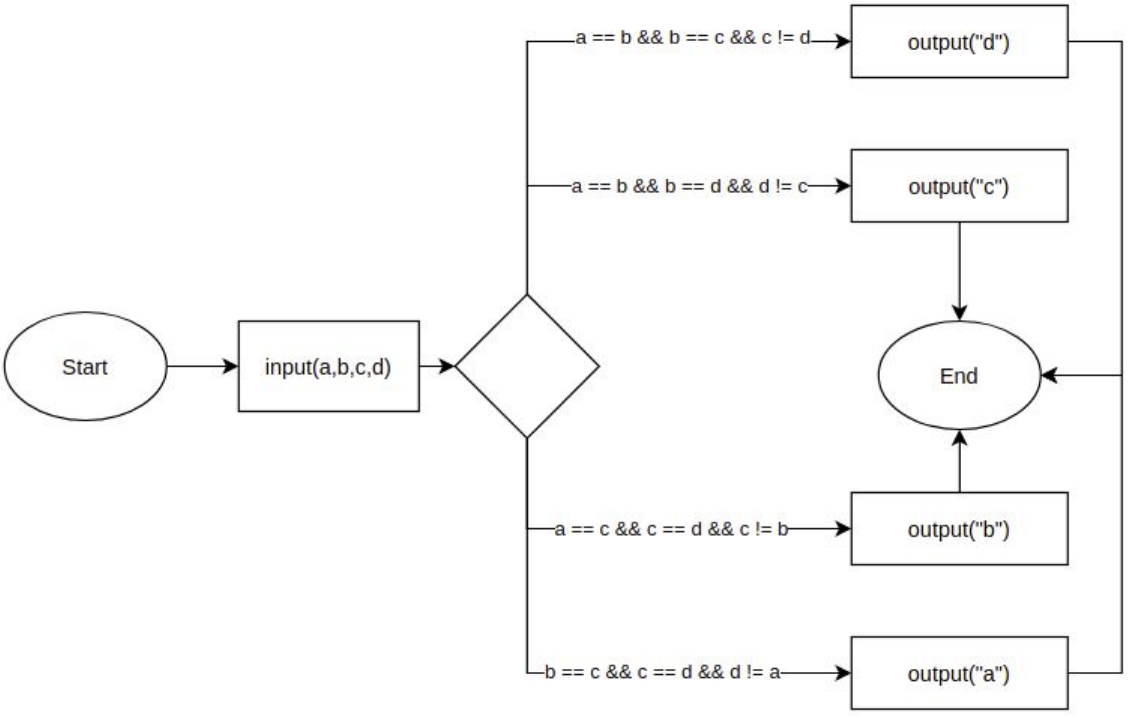
6. **Bola**

Pseudocode

program bola

```
kamus
   a, b, c, d : integer
algoritma
   input(a, b, c, d)
   if a == b && b == c && c != d then
      output("d")
   else if a == b && b == d && d != c then
      output("c")
   else if a == c && c == d && c != b then
      output("b")
   else if b == c && c == d && d != a then
      output("a")
   endif
endprogram
```

Flowchart



7. **Prima**

Pseudocode

```
program prima
kamus
   angka: integer
   prima: boolean
algoritma
   input(angka)
   prima <-- true
   i <-- 2
   repeat
      if angka % i == 0 then
         prima <-- false
         break
      endif
      until i >= angka;
   endrepeatuntil
   if prima then
      output('prima')
   else
      output('bukan prima')
endprogram
```

Flowchart