Menampilkan Data Graf

BFS (Breadth First Search)
DFS (Deep First Search)

Lv0 → (1)
Lv1 → (3)   Lv1 → (4)   Lv1 → (2)
Lv2 → (5)   Lv2 → (6)
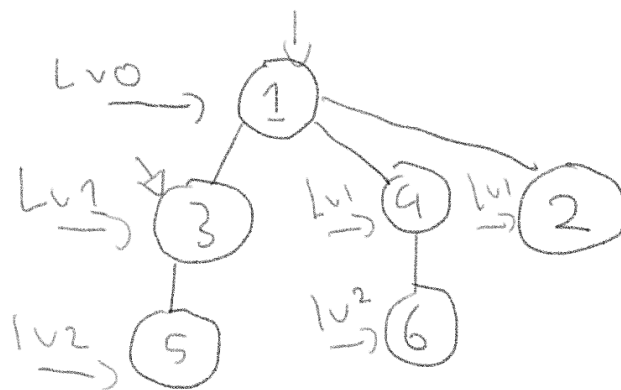
BFS → $\overset{0}{1}$, $\overset{1}{\overbrace{3 \quad ,4 \quad ,2}}$, $\overset{2}{\overbrace{5 \quad ,6}}$

DFS
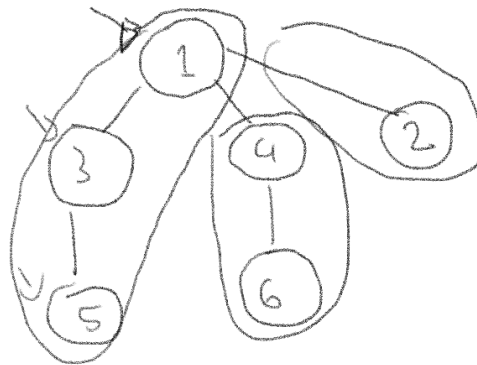
1 3 5 4 6 2

_____

BFS → (Graph) + (Queue)

1 2 3 4 t

0 → (1)   1 2 3 4 5

1 → (2)   → (3) → (4)
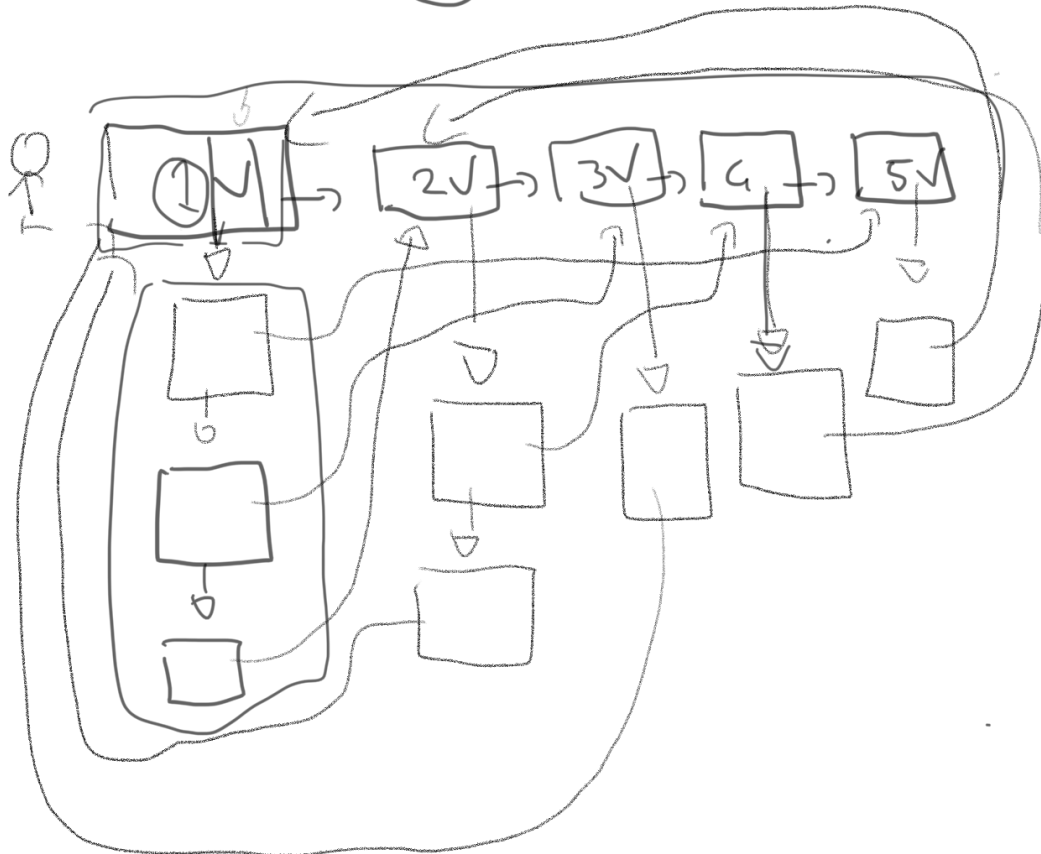1 →

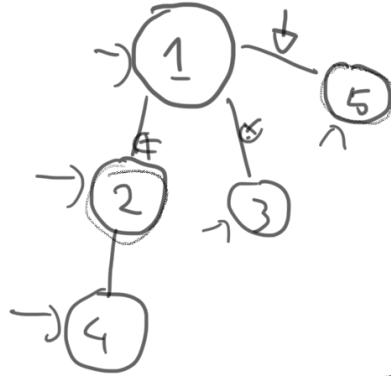2 → (5)

Grafnya
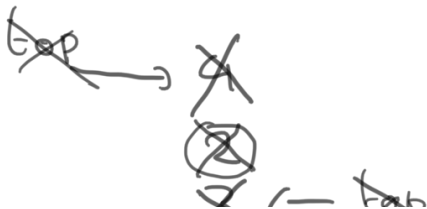
2   1
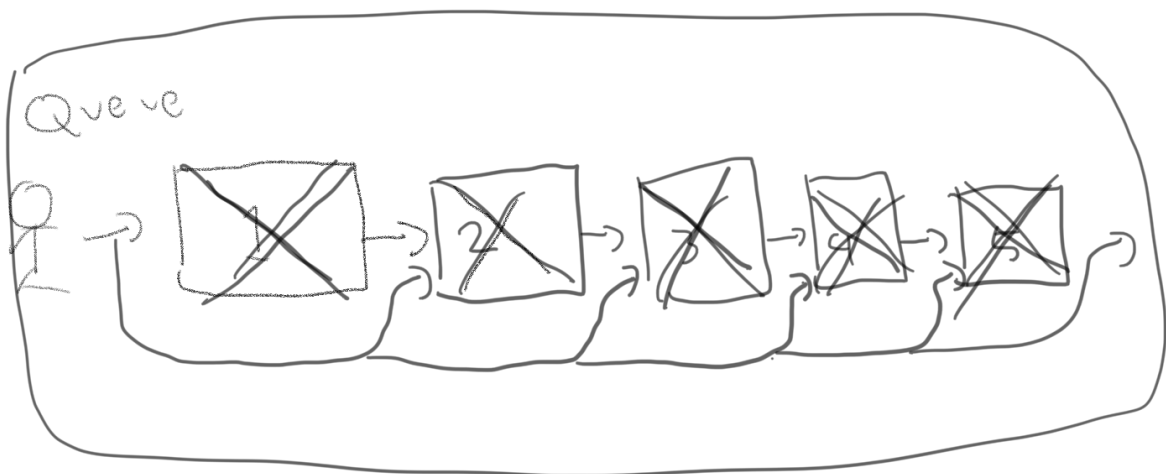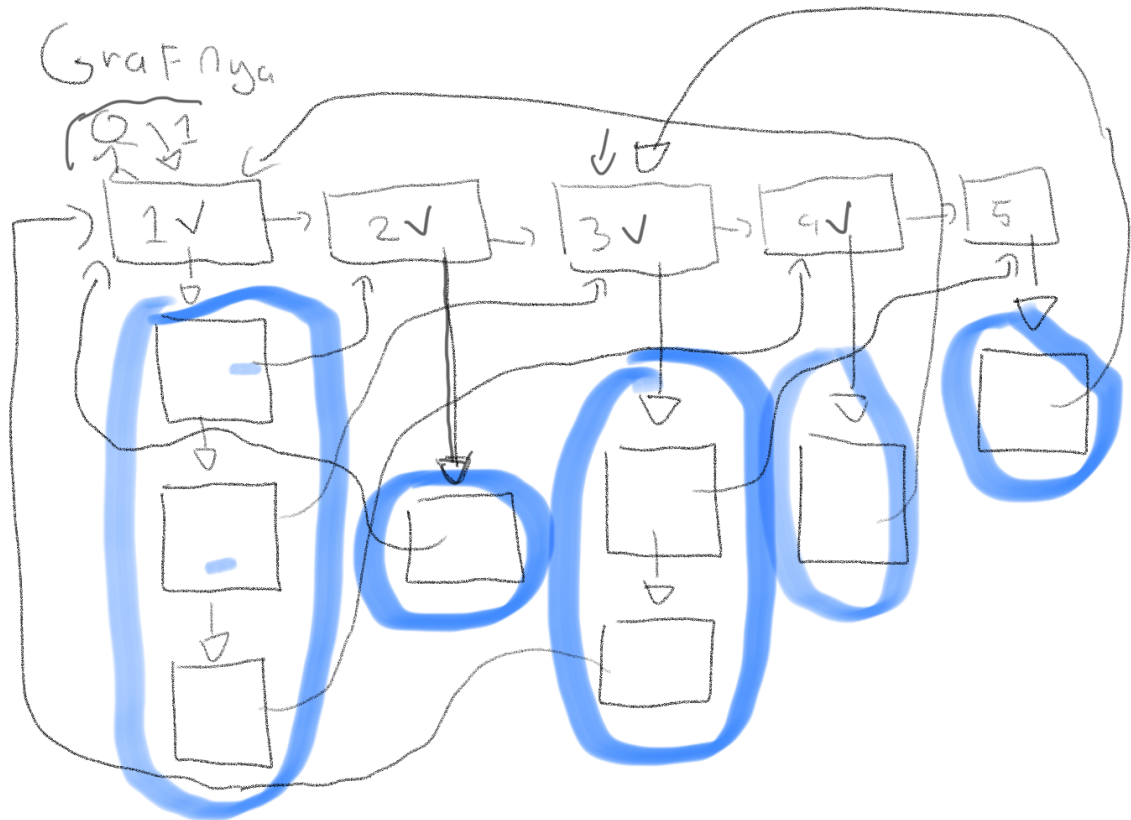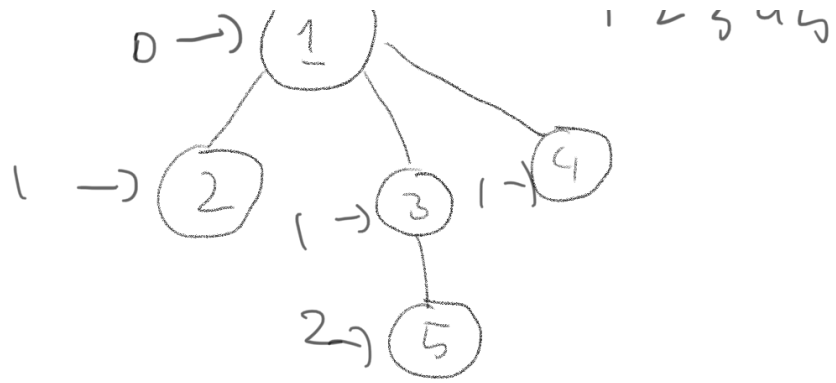
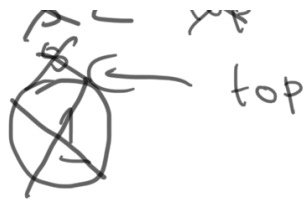1√ → 2√ → 3√ → 4√ → 5

Queue

Output 1   2   3   4   5

DFS

DFS → stack

Output 1 2 4 3 5

Procedure BFS (First : address besan)

kamus
   B1 : address besan
   B2 : addres kecil
   head : addressqnueue

enqueue ⎫
dequeue ⎭ → udah ada

Boxqueue
→ address besan
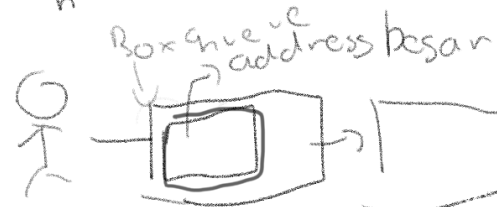
Algoritma

Starting Point
Naruh di node
Awal

B1 ← First →

enqueue (B2, head)

while (head ≠ Null)

Output (head. info. data)
head. info. status ← true
→ menuliskan isi Node

Box Besan

Data	Status	T e l a n g g a	Next

B2 ← head. info. tetangga

while (B2 ≠ Null)

→ Mema kan anak tetan

   iF (B2. data. Status ≠ true)

   enqueu (B2, Head)

   B2 ← B2 next

endwhile

deqrieve (head)

end whil

DFS

Graph

Data	Status	tetangga	Next
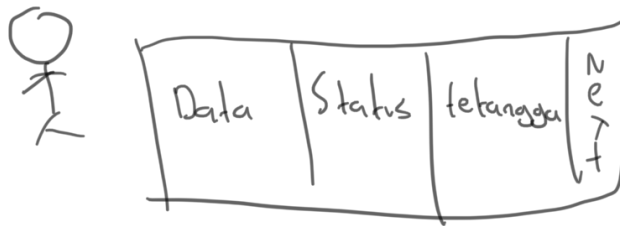
Stack

→ address Besar

Pop dan push (sudah Ada)

Procedure   DFS (First: address besar)

Kamus

B_1: address besar

B_2: address kecil

ToP: address stack

Algoritma

$B_1 ←$ First   } → untuk starting
                           Point
Push (B_1, ToP)

while (top $\neq$ Null)

Output (top. info. data)
top. info. status $\leftarrow$ true $\rightarrow$ Nampilin

                                        Rata
$B_2 \leftarrow$ top. info. tetangga $\rightarrow$ masuki

while ($B_2 \neq$ Null)   Anak
    iF (B_2. info. status $\neq$ true)   Te ta
    Push (B_2, top)
    B_2. info. status $\leftarrow$ true

    $B_2 \leftarrow B_2$. Next
endwhile
Pop (head)
Endwhile
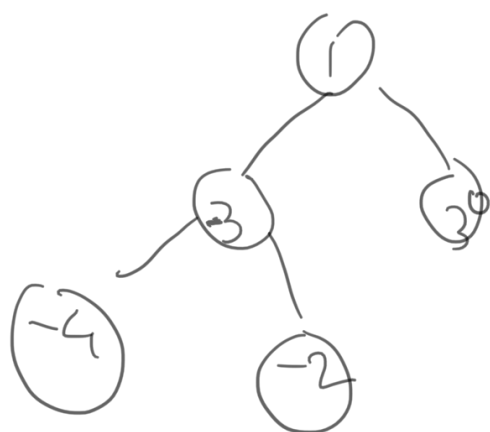
Materi UAS

Stack Queve $\rightarrow$ Coding

Tree $\rightarrow$ Coding
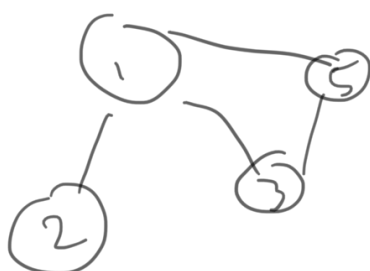 $\rightarrow$ Sebagian teori
Graph $\rightarrow$ Sebagian Coding
              Sebagian teori

Pre Order ?

Post ?

in order ?

BFS ?

DFS ?