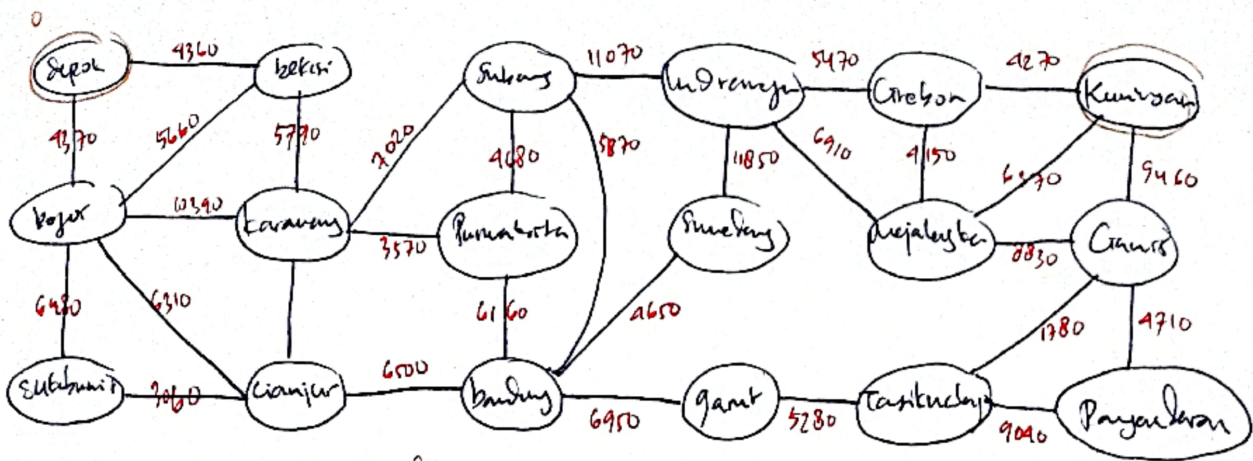


1.



\* asumsi gunakan jalur terpendek & di dikota

Depok - Kuningan

Depok - ~~Bojor~~ Bekasi - Karawang - Purwakarta - Bandung  
 a) 26.240  
 b) 23.470 → lebih kecil → total 43380 → Kalau pakai sistem maju terus, nanti dipilih next Node terkecil!

Depok Kuningan:

Rule: Depok - Bekasi - Karawang - Purwakarta - Bandung - Garut - Tasik - Cianjur - Kuningan.

Depok - Kuningan

Rule: Depok - ~~Bojor~~

Depok - Bekasi - Karawang - Subang - Indramayu - Cirebon - Kuningan

Total: 32980

Subang - Pangajene.

Rule: Subang - Bandung - Garut - Tasik - Pangajene

Total: 22140

→ Kalau manual, pilih yang mana totalnya yang ~~lebih~~ plus kecil

~~fungsi di dikota~~

Input graph // buat map  
 Input startNode // buat mulai  
 Input targetNode // buat akhir

for node in graph

node.Score = ∞  
 node.Visited = FALSE

end

startNode.Score = 0

while TRUE

currentNode = node Lowest Score (graph)

currentNode.Visited = TRUE

for nextNode in currentNode.neighbors

if nextNode.Visited = FALSE

newScore = calcScore(currentNode, nextNode)

if newScore < nextNode.Score

nextNode.Score = newScore

nextNode.routeToNode = currentNode

end

if currentNode == targetNode // apakah selesai?  
 return buildPath(targetNode)

if node Lowest Score (graph).Score == ∞  
 No path found

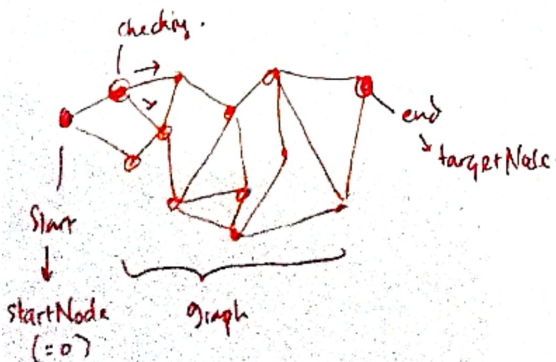
end

The function is to

check: ∞

① Is the node visited?

② If there are more than one path next to now, which one is the lowest but the lowest score?



Huffman

$\frac{1}{50}, \frac{2}{50}, \frac{3}{50}, \frac{4}{50}, \frac{5}{50}, \frac{6}{50}$

$\downarrow$

0.02      0.04      0.06      0.08      0.09      0.12

$$\begin{aligned} \text{Avg bit length} &= (5 \cdot 0,02)5 + (5 \cdot 0,04)3 + (5 \cdot 0,06)4 + (5 \cdot 0,07)4 \\ &\quad + 2(0,05) + 2(0,15) \\ &= 0,15 + 0,16 + 1,12 + 1,4 + 0,18 + 0,38 \\ &= 4,26 \end{aligned}$$