

-graphs can be represented cising either Adjacency mutrix of Adjacong list.

(A) Distance of route ABC 5+4=9

(B) The number of trips storting at c and. ending at c with maximum 3 stops Haitai Ng

- CDC (2 Stops)

- CDEBC (4 Stops)

The number of different router from C

to c with a distance of less than 30

-CDC = 16

-CEBC = 9

-CEBCDC = 1649 = 25

CEBCEBCEBC = 27

-CDCCETSC = 25

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Shortest route (in terms of travel) from A to C

Swe Dijkstras Algorithm

Action List

be using an adjacency List

be using an adjacency List

data structure to represent the

data structure to represent

[A] -> [B] D [E]

graph.

[B] -> [adjacent]

Leight --
[C] -> [B] E]

- Adjacency Lists (clirected greph with weight)

- Depth first search to find all paths
from source to destinations (modified depth first search)

[E] -> | B

- Recursive / NP to find cyclic routes

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- modified depth first search can find paths.

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- how to recursively find all permutations when

C= H of stops of C= max Allocated Stistance

- Dijhistra's Algorithm for shortest path between two nocles.