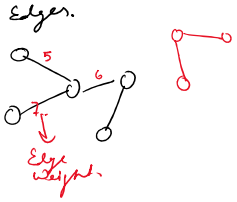
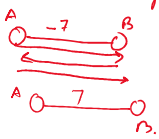
Djikstra Algo — Graph → Nodes → Edges.

Src Node → Other nodes.
Distance.

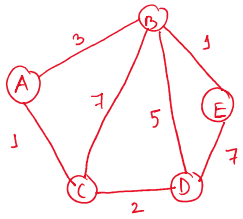


① Directed & Undirected Graph.
② Graph connected.
③ Weighted Graph.
④ No Negative edges



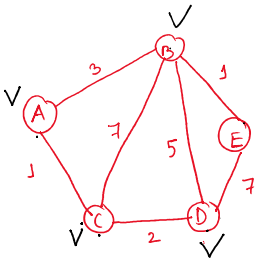
D = -7 + -7 - 7

Djikstra - distance of every other node from a single source.

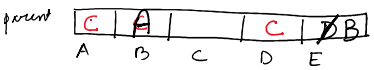


Source = C.

Node C → A
C → D
C → B
C → E
} Minm Distance.



selected Node	Distance of nodes from src=C. A	B	C	D	E
	∞	∞	0	∞	∞
C	1	7	0	2	∞.
A	1	4	0	2	∞.
D	1	4	0	2	9.
B	1	4	0	2	5
E	1	4	0	2	5.



d(src to E) = d(src to B) + d(B to E).
= 4 + 1
= 5.

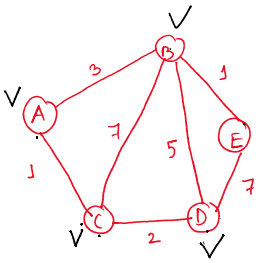
d(src to E) = d(src to D) + d(D to E).
= 2 + 7 = 9.

dist(src to A) = dist(src to C) + dist(C to A)

dist(src to B) = dist(src to ~~A~~) + 1 + dist(A to ~~B~~) 3.
= 4

B and E.

d(src to B) = d(src to D) + d(D to B).
2 ↑ ↳ 5
= 7.



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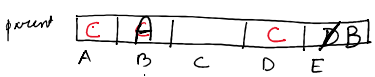

src = C, dest = E.

E → B → A → C (src).

src = C, dest = B.

B → A → C (src).