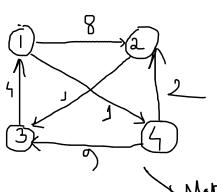
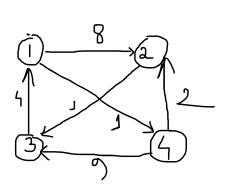
## Floyd warshall algo S section

07 April 2025 09:07



Src	Dutinan
1	2,3,4
2	1,3,4
3	1,2,7
4	1,2,3.



$$D_{j} = \begin{cases} 1 & 2 & 3 & 4 \\ 2 & 0 & 8 & \infty & 1 \\ 2 & \infty & 0 & 1 & \infty \\ 3 & 4 & 12 & 0 & 5 \\ 4 & 0 & 2 & 9 & 0 \end{cases}$$

 $2h3vinJ = 2h1+Jh3 = \infty | 2h4=2h1+1h4=\infty$  3h2=3h1+1h2=4+1=5 4h2=4h1+1h2=20 | 4h3=4h1+1h4=4+1=5

$$D_{j} = \begin{cases} 1 & 2 & 3 & 4 \\ 1 & 0 & 8 & \infty & 1 \\ 2 & \infty & 0 & 1 & \infty \\ 3 & 4 & 12 & 0 & 5 \\ 4 & 0 & 2 & 9 & 0 \end{cases}$$

$$D_{2} = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 1 & 0 & 8 & 9 & 1 \\ 2 & 0 & 0 & 1 & 0 \\ 3 & 4 & 12 & 0 & 5 \\ 4 & 0 & 2 & 3 & 0 \end{bmatrix}$$

4 2 3 0

 $\int h 3 \text{ vi} \, \lambda \, 2 = \int h \, 2 + 2 \, h \, 3 = 8 + J = 9. 
\int h 4 = \int h 2 + 2 \, h \, 4 = 8 + \infty = \infty$   $3 \text{ hol} = 3 \text{ hol} + 2 \text{ hol} = 12 + \infty = \infty \quad |3 \text{ hol} = 3 \text{ hol} + 2 \text{ hol} = 12 + \infty = \infty$   $4 \text{ hol} = 4 \text{ hol} + 2 \text{ hol} = 2 + \infty = \infty \quad |4 \text{ hol} = 4 \text{ hol} + 2 \text{ hol} = 2 + 1 = 3.$ 

$$D_{2} = \begin{cases} 1 & 2 & 3 & 4 \\ 2 & 0 & 8 & 9 & 1 \\ 2 & 0 & 0 & 1 & 8 \\ 3 & 4 & 12 & 0 & 5 \\ 4 & 2 & 3 & 0 \end{cases}$$

1 to 2 vin 3 = 1 to 3 + 3 to 2 = 9 + 12 = 21 2 to 1 = 2 to 3 + 3 to 1 = 1 + 4 = 5 2 to 4 = 1 to 3 + 3 to 4 = 9 + 5 = 14 2 to 4 = 2 to 3 + 3 to 4 = 1 + 5 = 6 4 to 3 + 3 to 1 = 3 + 4 = 10 to 7 4 to 2 = 4 to 3 + 3 to 2 = 3 + 12 = 15