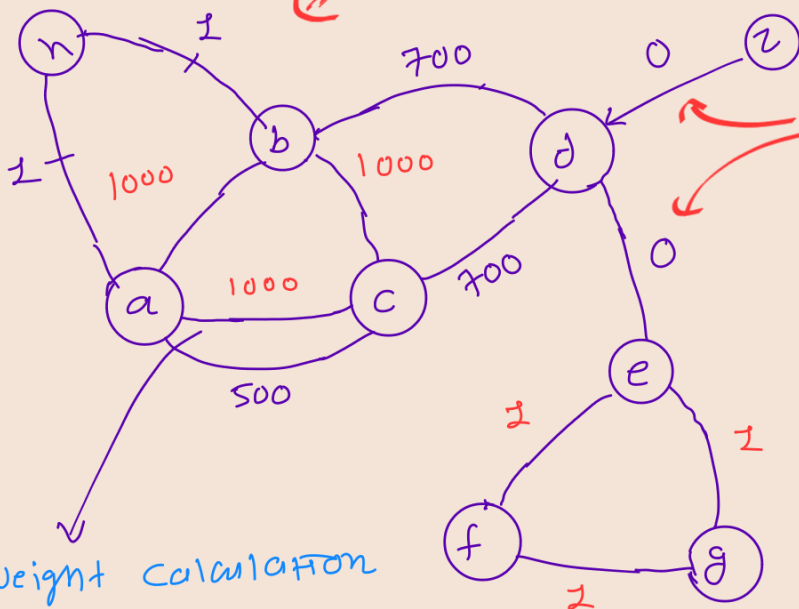


Simple weighted directed graph (D)



Not part of any 3 cycle / 2 cycle in directed graph so weight assignment 0.

undirected weighted graph operates Based on our directed to undirected algorithm

eg. Weight calculation of edge ab

Based on our algorithm will be:

→ (a,b) part of 2, 3 length cycle + 2, 2 length cycle in original simple directed graph (D)

Final weight value of (a,b) is = MAX

$$\left\{ \begin{array}{l} \min \{1000, 500\} + \\ \min \{1000, 1000, 1000\} + \\ \min \{1000, 2, 1\} \end{array} \right\}$$

undirected weighted graph (u)

Friend Amount in 2 length cycle

(c)

$$= \text{MAX} \{ \overset{\downarrow}{500}, 1000, \overset{\uparrow}{2} \}$$

→ Fraud Amount in 3 length cycle 2.

$$= \boxed{1000}$$

← Fraud Amount in 3 length cycle 1

↙
Final weight of
edge (a,b) in undirected
graph (u)