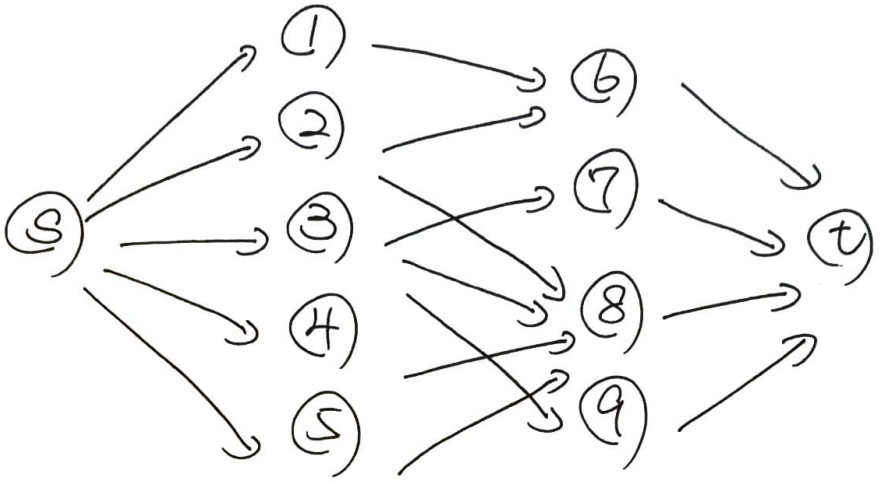
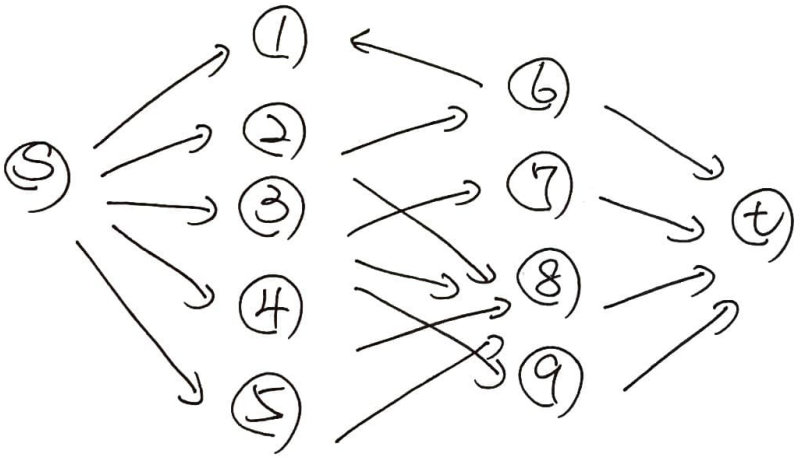
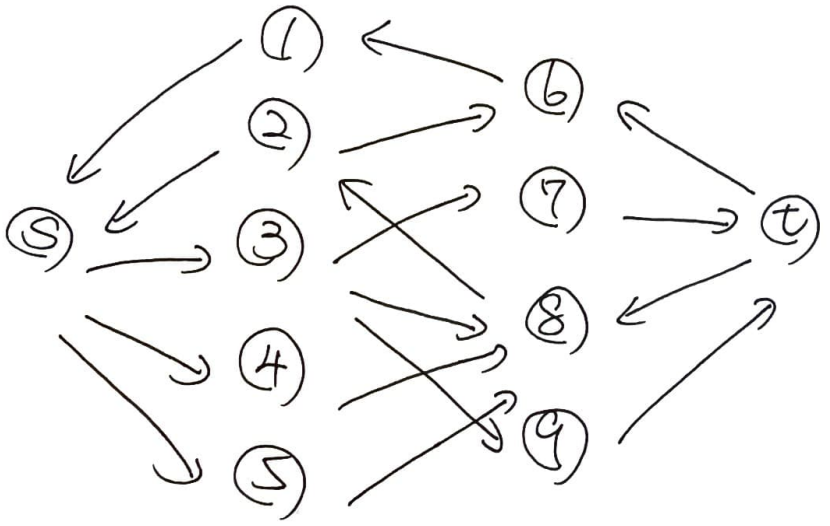
Initial Network :



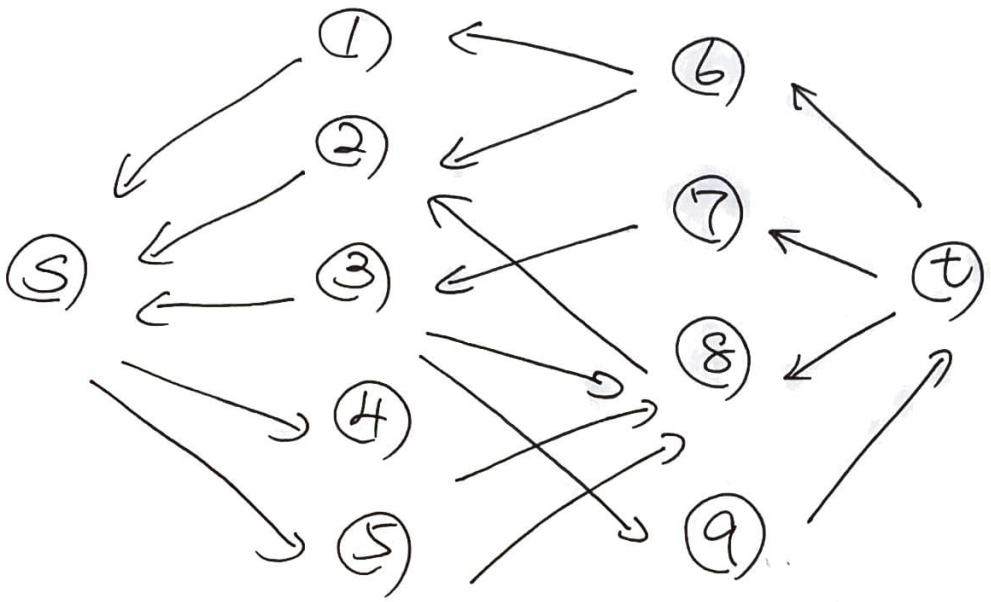
Augmenting Path : $s \to 1 \to 6 \to t$



Augmenting Path : $s \to 2 \to 8 \to t$



Augmenting Path : $s \to 3 \to 7 \to t$



MaxFlow Practice :

Augmenting Path 1 : Source 'S' and Sink 'T'

S - 10 → A - 5 → B - 7 → T

Flow = min of all capacities of the selected channel

Flow = min (10, 5, 7) = 5

S - 5/10 → A - 0/5 → B - 2/7 → T

⇒ Flow between vertices A and B has become 0 and then path between A and B has blocked

⇒ Flow = 5 *

Augmenting Path 2 :

S - 8 → C - 10 → D - 10 → T

Flow = min (8, 10, 10) = 8

S - 0/8 → C - 2/10 → D - 2/10 → T

⇒ Flow between vertices S and C has become 0 and then path between S and C has blocked

⇒ Flow = 8 *

Augmenting Path 3 :

S - 5/10 → A - 2 → C - 2/10 → D - 2/10 → T

Flow = min (10 , 2 , 10 , 10) = 2

S - 3/10 → A - 0/2 → C - 8/10 → D - 8/10 → T

⇒ flow between vertices A and C become 0
and then path between A and C are blocked

⇒ Flow = 2 *