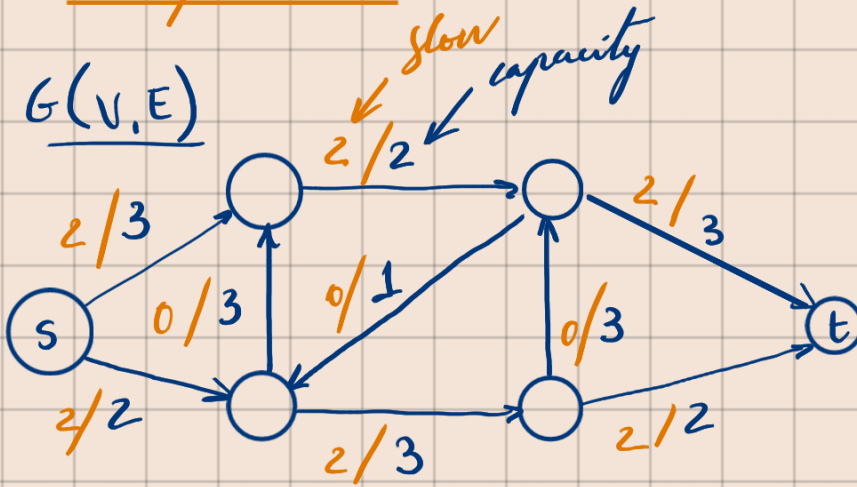


Flow Networks



Source $s \rightarrow$ Sink t
flow from \rightarrow to

$$flow_e \leq capacity_e$$

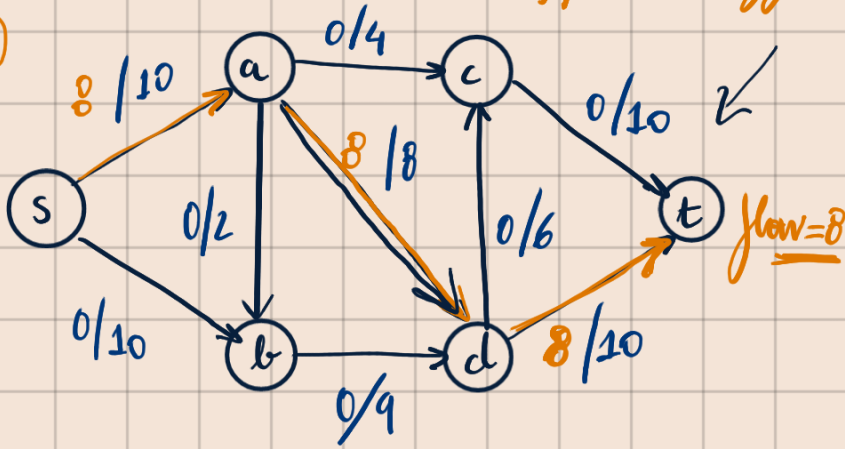
CONSERVATION
OF FLOW

$MAX = 4$

\downarrow
max flow

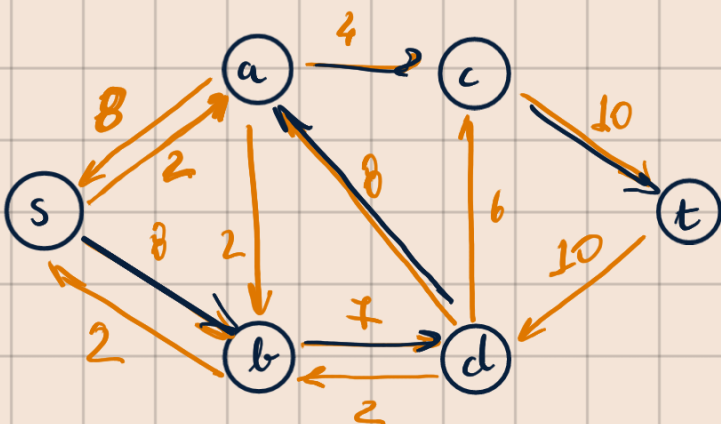
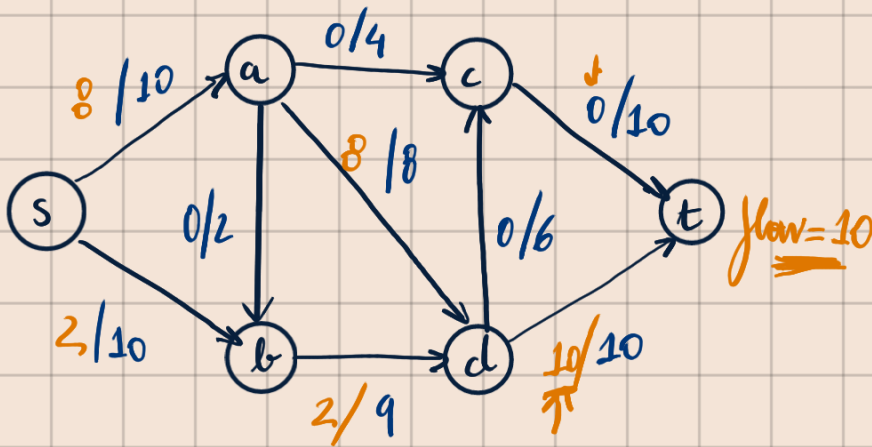
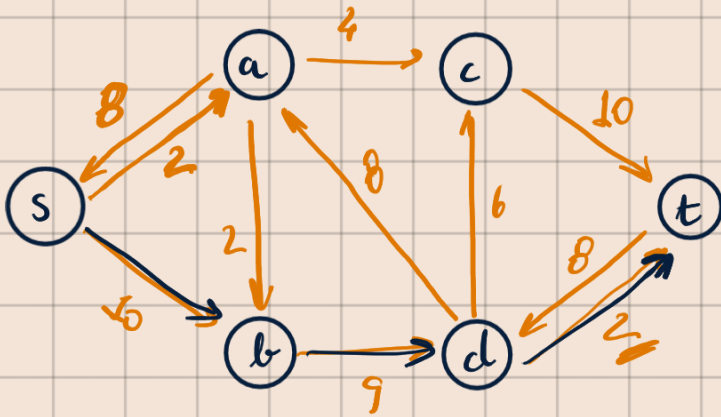
Ford - Fulkerson Methodology

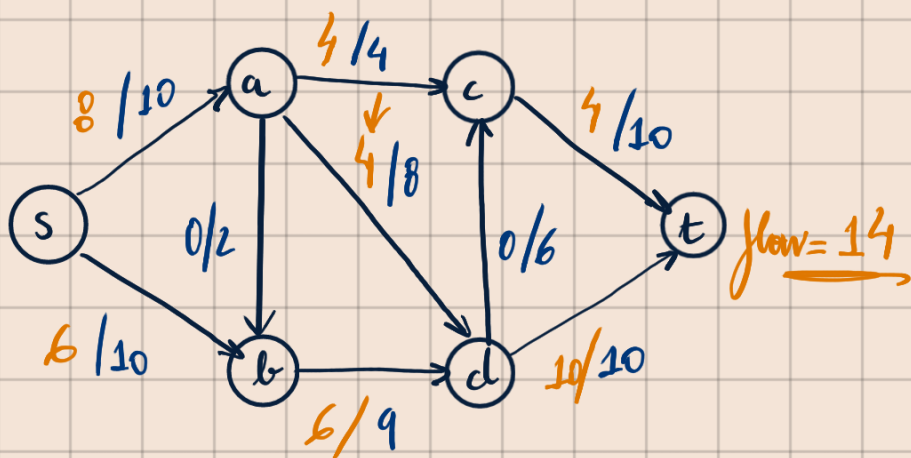
①



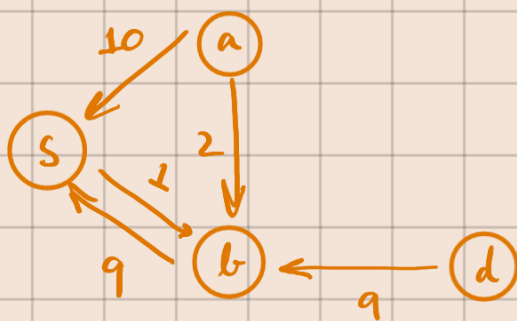
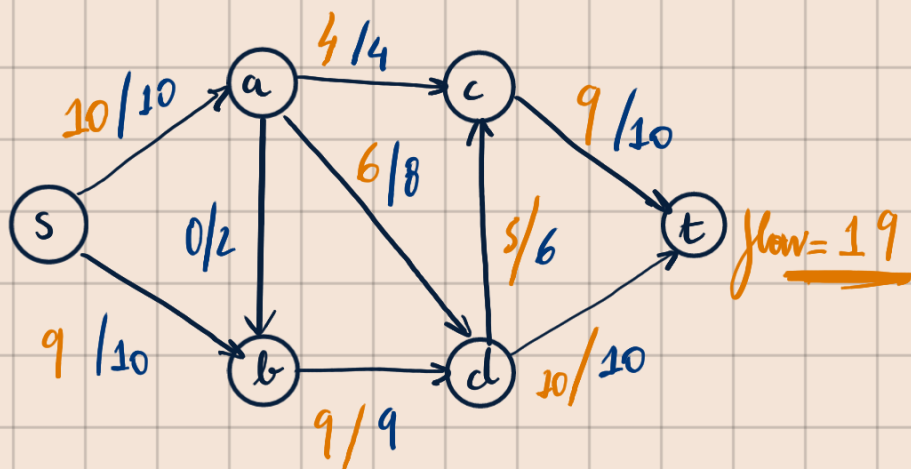
Augmenting path	Bottleneck capacity
$s \rightarrow a \rightarrow d \rightarrow t$	8
$s \rightarrow b \rightarrow d \rightarrow t$	2
$s \rightarrow b \rightarrow d \rightarrow a \rightarrow c \rightarrow t$	4
$s \rightarrow a \rightarrow d \rightarrow c \rightarrow t$	2
$s \rightarrow b \rightarrow d \rightarrow c \rightarrow t$	3

Residual Network





...



no more
paths!