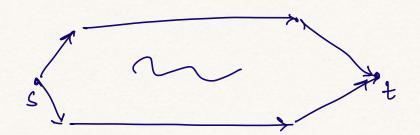
Network Flows-I

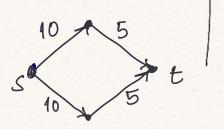
Coopacities C: E - N.



Want:

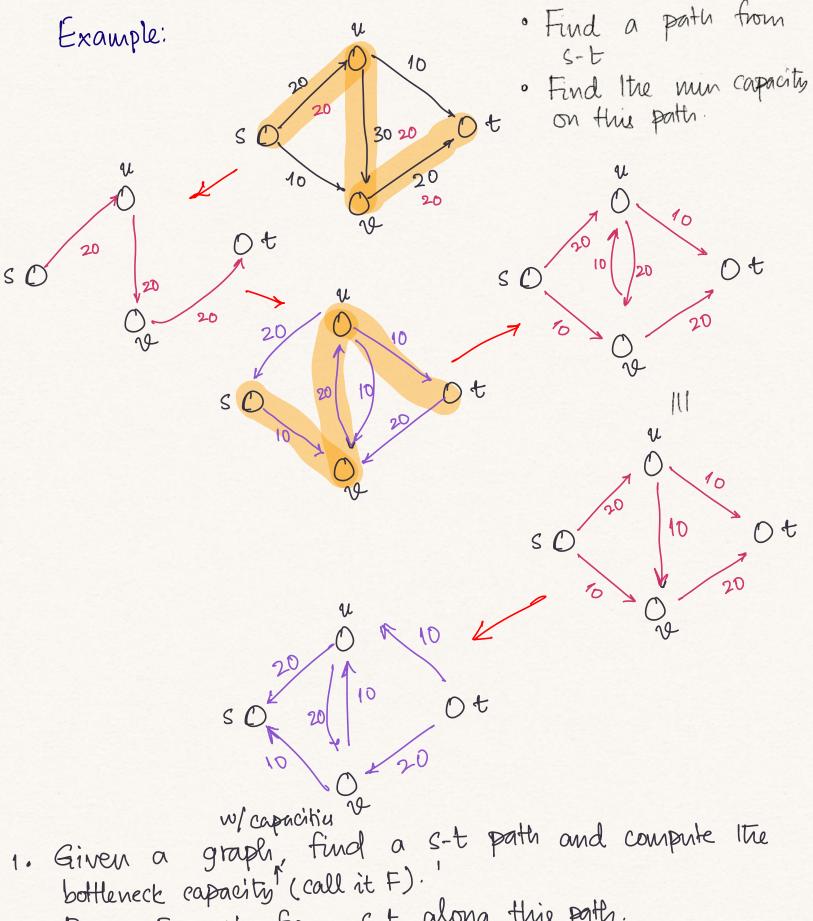
The max flow that can be routed from s to t. (Subj to capacity constraints).

- For an edge $(u,v) \in E$, we want $f(u \rightarrow v) \leq c(u \rightarrow v)$.
- max $\left(\sum f(S \rightarrow V)\right)$. $10 \longrightarrow 5$ $f(U \rightarrow V) = 0$ $f(U \rightarrow V) = 0$ if $(\overline{U}, \overline{U}) \notin E$ $V \mapsto V \mapsto V$



. Conservation of flow at every mode. I

$$\sum f(w \rightarrow v) = \sum f(v \rightarrow x)$$
.



20 Route Funts from s-t along this path.

3. Construct a residual capacity graph and set it as G

4. Repeat until no move s-t paths can be found.

