

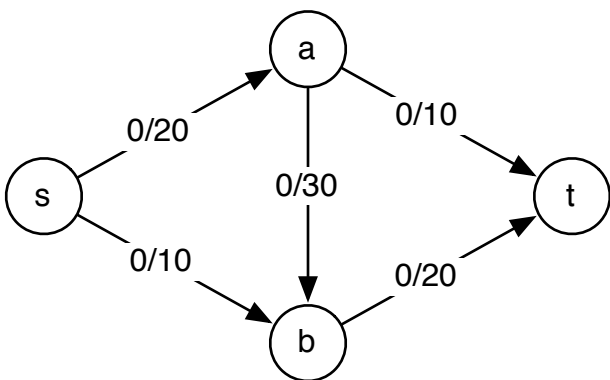
# Ford-Fulkerson Example

Initially, the flow is 0 for all edges.

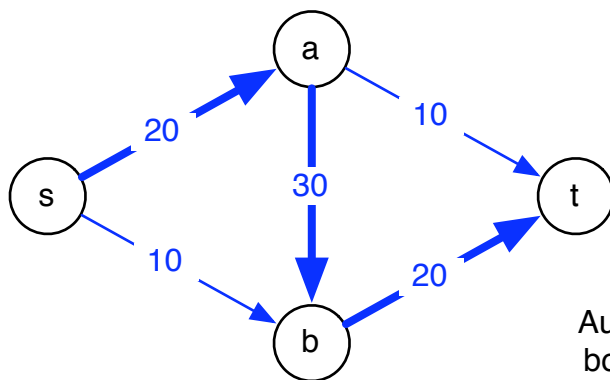
Forward edges

Backward edges

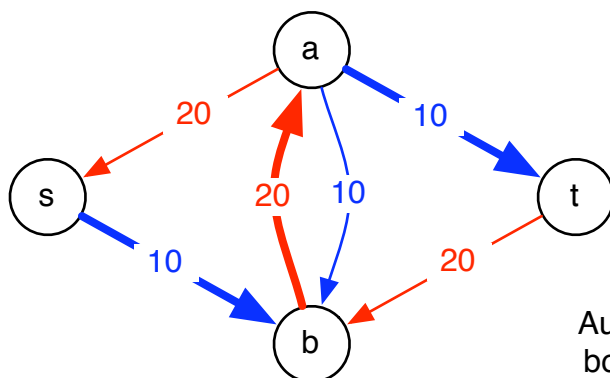
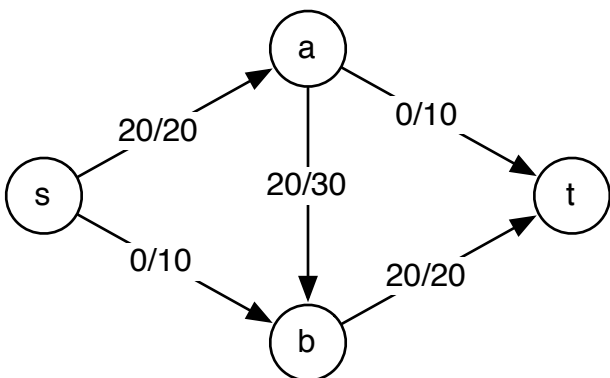
The flow network,  $G$ :



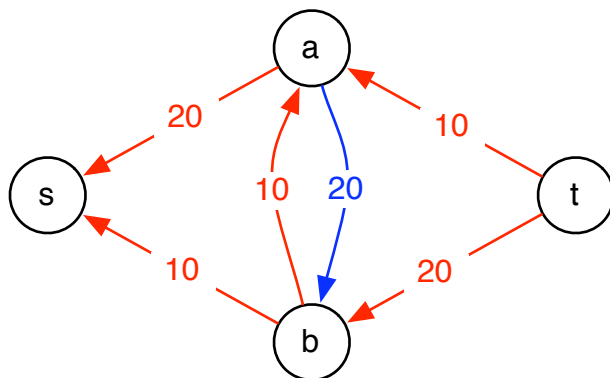
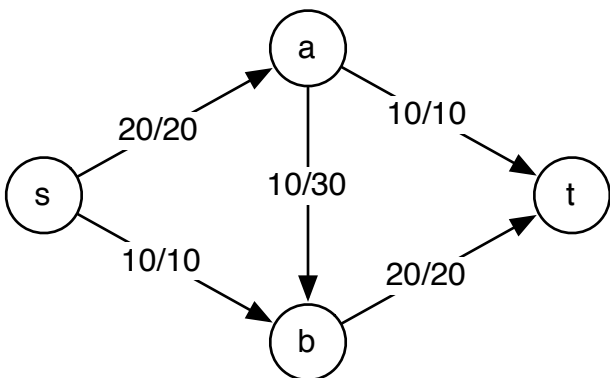
The residual graph,  $G_f$



Augment  $s$ - $a$ - $b$ - $t$   
bottleneck = 20



Augment  $s$ - $b$ - $a$ - $t$   
bottleneck = 10



No  $s$ - $t$  path

A max-value flow!  
It couldn't be any better,  
since all edges out of  $s$  are  
at capacity.