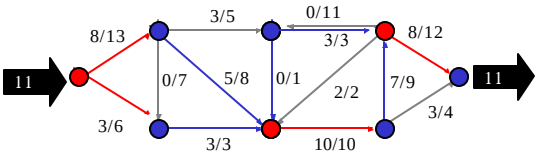
Flow across (R,B)



Flow across a cut

- Conservation of flow

- The flow across any cut equals the network flow

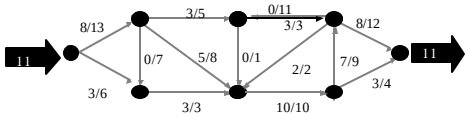
Flow across a cut

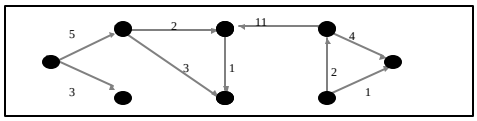
- Conservation of flow + max flow/min cut theorem

- If flow is max then for minimum capacity cut (R,B): $\Sigma f(<v,u>) = 0$

Build residual graph

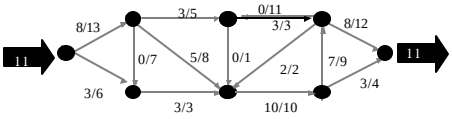
1. Add e if flow(e)<capacity(e)

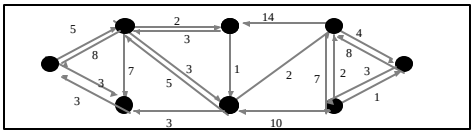




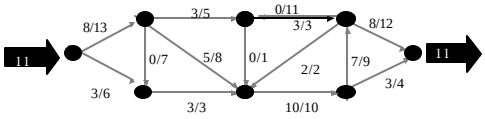
Build residual graph

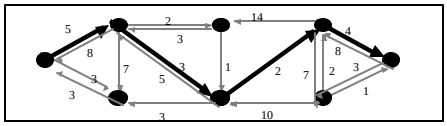
2. Add reverse(e) if flow(e)>0



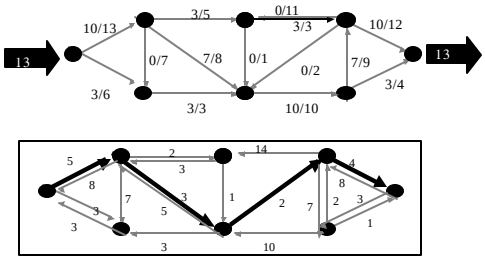


Find s→t path in the residual graph

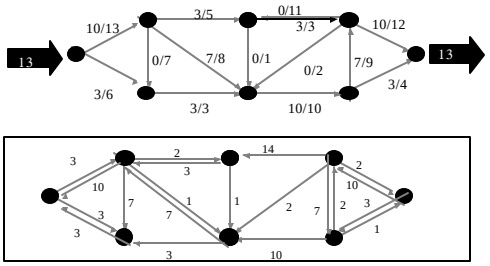




Augment the s→t path in the network



And then …
Repeat until residual graph has no s→t path



Augmenting Path Method (Ford-Fulkerson)

- Is it correct?
- Is it efficient?

Exercise