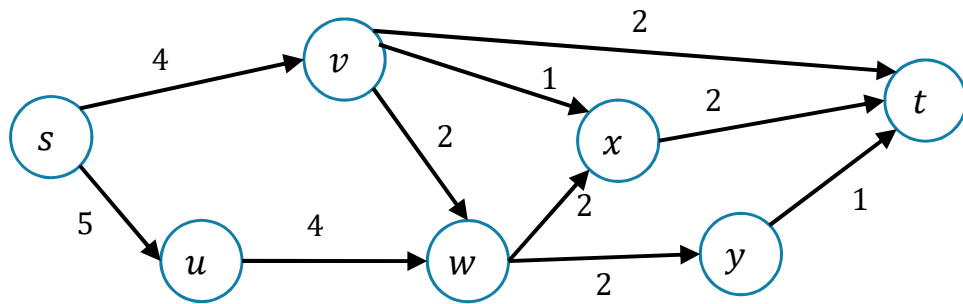


Flows

A **flow** moves units of water from s to t .

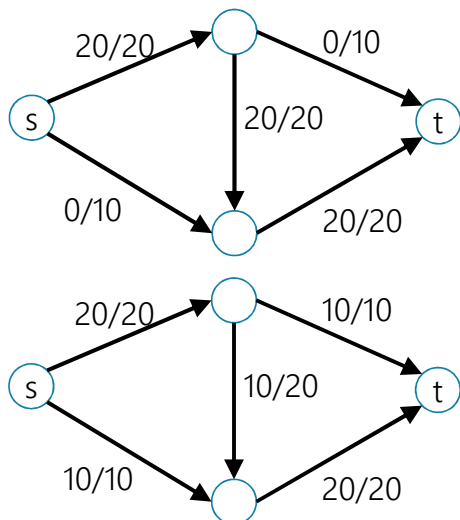
Water can only be created at s and only disappear at t .

And you cannot move more water than the capacity on any edge.

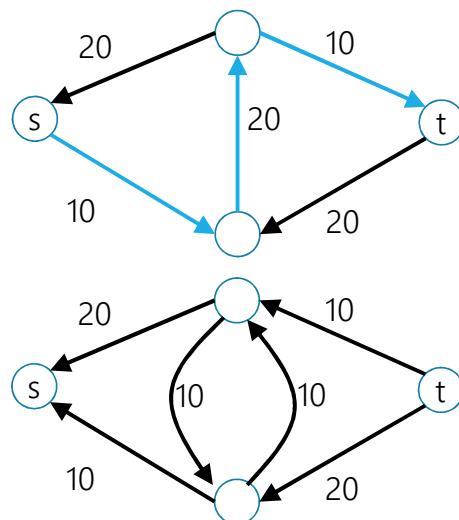


An Example

Graph, with flow

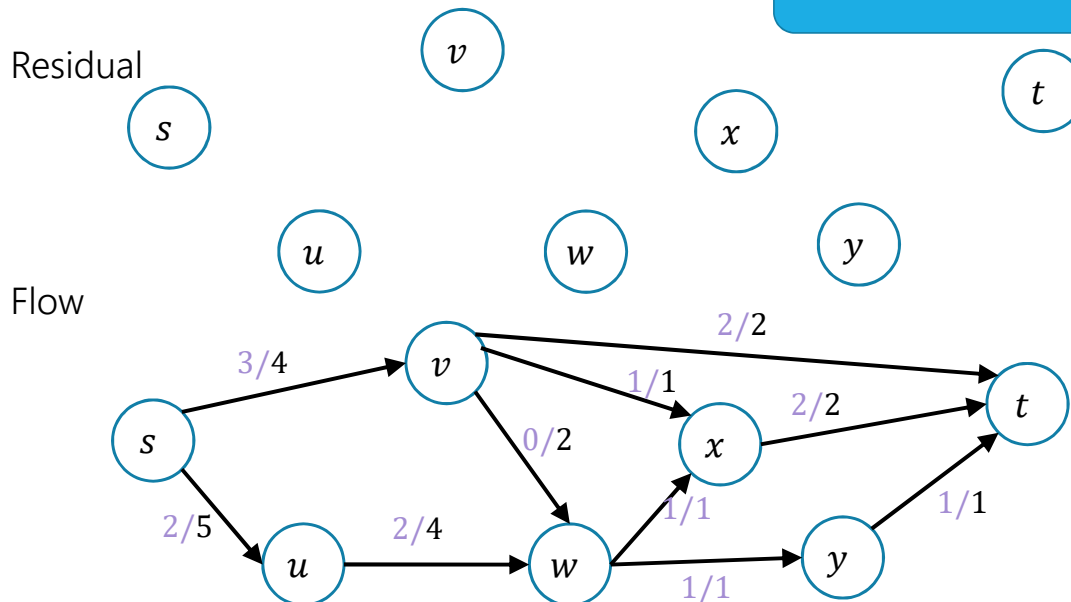


"Residual Graph"



Another Example

[Pollev.com/robbie](https://pollev.com/robbie)



Example Problem

You and your housemates need to decide who is going to do each of the chores this week.

Some of your housemates are unable to do some chores.

Housemates: 1,2,3

Chores:

Arrange furniture, clean the Bathroom, Cook dinner, do the Dishes

Housemate 1 is unable to arrange furniture, 2 is unable to cook.