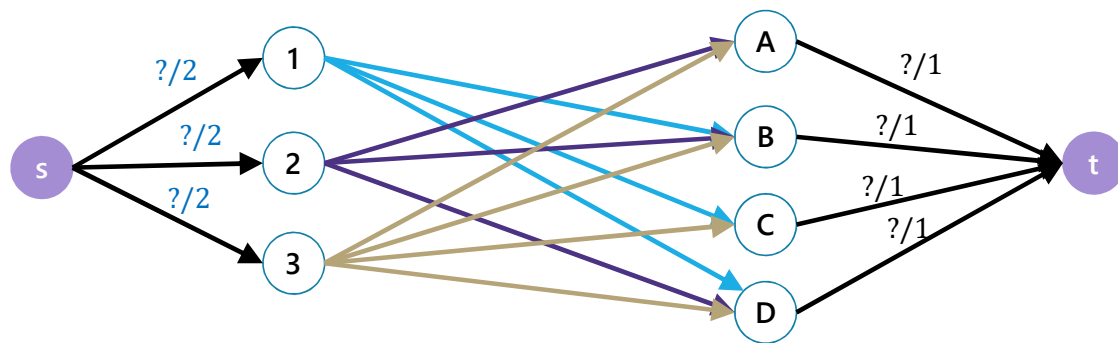# Example Problem

Idea: Flow from 1 to B means "make housemate 1 do chore B."

Every chore needs to be done (by one person).

Every person needs to do at most two chores.

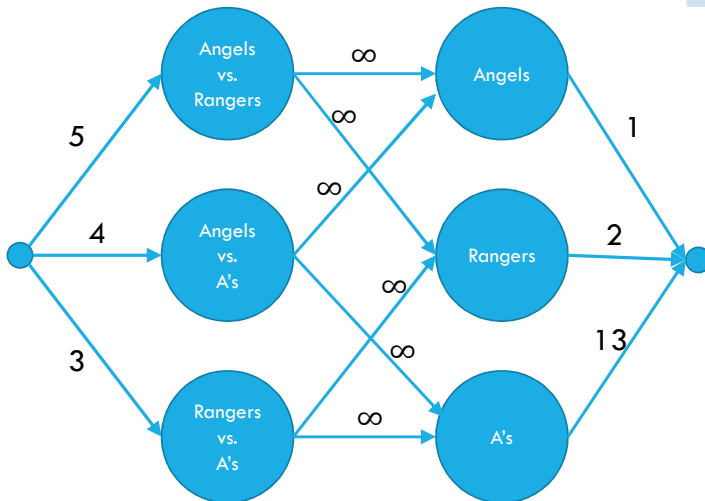# Why are all of our constraints met?

Every chore gets done

No one does more than 2 chores

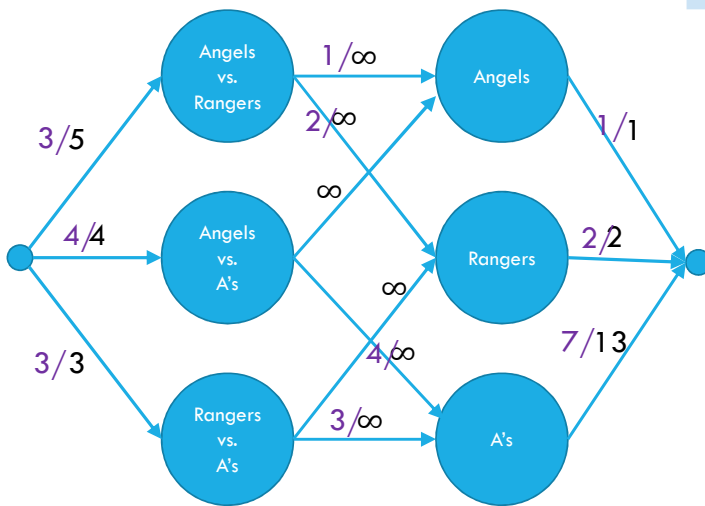People only do chores they're capable of

Making a Network

	Angels	Rangers	Mariners	A's
Angels	-	5	3	4
Rangers	5	-	4	3
Mariners	3	4	-	5
A's	4	3	5	-

Team	Wins (w)	Possible Wins (P)
Angels	81	93
Rangers	80	92
Mariners	70	82
A's	69	81

We're done!

Max Flow

	Angels	Rangers	Mariners	A's
Angels	-	5	3	4
Rangers	5	-	4	3
Mariners	3	4	-	5
A's	4	3	5	-

Team	Wins (w)	Possible Wins (P)
Angels	81	93
Rangers	80	92
Mariners	70	82
A's	69	81

This is the maximum flow. What's the min-cut?

{s, Angels vs. Rangers, Angels, Rangers} is one side of the cut.

The Angels and Rangers were enough to prove that the Mariners couldn't win!