

Stable Matching, More Formally

Perfect matching:

- Each rider is paired with exactly one horse.
- Each horse is paired with exactly one rider.

Stability: no ability to exchange

an unmatched pair $r-h$ is **blocking** if they both prefer each other to current matches.

Stable matching: perfect matching with no blocking pairs.

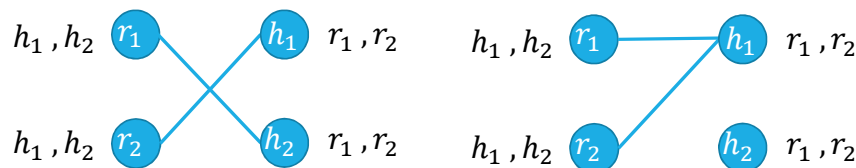
Stable Matching Problem

Given: the preference lists of n riders and n horses.

Find: a stable matching.

Try it!

Why are these not stable matchings?



Find a stable matching for this instance.

