What data structures should you use?

Initially all r in R and h in H are free

While there is a free r

Need to maintain free r. What can insert and remove in $O(1)$ time?

Let h be highest on r's list that r has not proposed to

if h is free, then match (r, h)

Maintain partial matching

Each r should know where it is on its list.

else //h is not free suppose (r', h) are matched

if h prefers r to r′

Given two riders, which horse is preferred?

unmatch (r', h)

match (r, h)

Maintain partial matching

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