

Every time proposer P proposes, starting with his ideal mate, possible-mates is $\langle \text{set!} \rangle$ to be the $\langle \text{cdr} \rangle$ of possible-mates. This means that, regardless of whether that person says yes or no, the next time P goes to propose, the $\langle \text{car} \rangle$ of possible-mates will be the next person on P 's original list of possible-mates b/c the $\langle \text{car} \rangle$ if it has been reassigned to be the next person on the list the last time P proposed. And when P has been dumped, b/c P 's current-intended has been set to $\langle \text{empty} \rangle$ / null, P is added back onto the list of unengaged-proposers.

A always accepts proposals from people liked more than their current-intended because (1) if A is unengaged, he/she will always say yes to proposer P . (2) when current-intended is NOT null (A is engaged), if $\langle \text{i-like-more?} \rangle$ returns true, and A likes P' more than P (b/c P' appears earlier on A 's list of preferences), A will dump his/her current-intended (P).
*So, unless the first P to propose to A is #1 on A 's preference-list, A will (usually) dump P for P' . Likewise, if the first P to propose to A is last on A 's preference-list, A will say yes to anyone¹²⁹ that proposes (until A 's "#1" or soul-mate proposes).