Stable-Marrisse Problem
Ly Two disjoint sets of Players
$X = \{x_1, x_2, \dots, x_n\}$
$Y = \{ \lambda_1, \lambda_2, \dots, \lambda_m \}$
The X players can only be matched w/Y players (and vice versa).
Everyone can be Single, and everyone starts Single.
Li Fach player X has Strict Breberences offe
Y players, though an & player may prefer to
Ly Save holds for Players.
Ex (Prob. Visted Most to Least Prob)
Xii Y2, Y1 Xii Y2, Y1 Xii Y2, Y1 Xii Y2, Y3 Xii Y3 Xii Y2, Y3 Xii Xii Y3 Xii Y3 Xii Xii Y3 Xii Xii Xii Xii Xii Xii Xii Xii Xii Xi
X2: 41,42,43 X2-42
X3: 41,82
41 - ×1/83/12 SIAA IN COLOR
72 (2) (1) x3 X1-y1 X3
23 . K1, K3, K2 X2-42 43

Gale-Shapley Algorithm Input Two disjoint sets of Players X, Y Each player's preference list Proposer Set: X Acceptor Seti Y. X2-42 Stable 1 - 41 Matching (order of groposal) Try X3, X2, X21 71 1/2-42.

Then Every ordering of proposess yields same Stable marriage, Ordering should be same for duration of algorithm).

Ex Fi	I M		Wer	Kers		
F, F2	F3 F4	W _c	W2	Wo	W4	
W3. W1 W1 W3 W4	W1 W3 W1 W4 W2	4	F1 F4 F3	5 Fi F4	F	
Firms Propose			Workers Propose			
F, -W3						
F2-W2 F3-W1 F4-W4			F2-1 F3-1 F4-h	13		