Practice Exercise for CS 4440 (Stable Matching Problem) INPUT Bertha Clare Xavier Amy Yancey Bertha Amy Clare Zeus Amy Bertha Clare Yancey Xavier Zeus Amy Bertha Xavier Yancey Zeus Clare Xavier Yancey Zeus Gale-Shapley ALGORITHM RUN script Xavier proposes to Amy. Amy pairs with Xavier because she is free. Yancey proposes to Bertha. Bertha pairs with Yancey because she is free. Zeus proposes to Amy. Amy rejects Zeus because she likes her current match, Xavier, more. Zeus remains free. Zeus proposes to Bertha. Bertha rejects Zeus because she likes her current match, Yancey, more. Zeus remains free. Zeus proposes to Clare. Clare pairs with Zeus because she is free. Now everyone has a match. Here Are The Matches: WOMEN MEN Xavier Amy Bertha Yancey Clare Zeus _____ _____ PROCESS THIS INPUT LIKE THE INPUT ABOVE WAS PROCESSED and produce the same kind of script of the actions taken by the Gale-Shapley algorithm, plus write what the final matching is. The men are X, Y, and Z. The women are A, B, and C. Х САВ Y B C A Z B A C A Y X Z B Z X Y СҮХΖ