

Name _____

No aids allowed. Answer all questions on test paper. Use backs of sheets if necessary.

Suppose that the Gale-Shapley algorithm is given the following input:

$$\begin{array}{l|l} b_1 : g_2, g_4, g_3, g_1 & g_1 : b_1, b_3, b_4, b_2 \\ b_2 : g_4, g_1, g_2, g_3 & g_2 : b_3, b_1, b_4, b_2 \\ b_3 : g_2, g_1, g_3, g_4 & g_3 : b_3, b_4, b_1, b_2 \\ b_4 : g_3, g_4, g_1, g_2 & g_4 : b_2, b_1, b_3, b_4 \end{array}$$

Run it here on paper, going through all four stages.