

Problem Set 11

Professor: Victor H. Aguiar
prepared by Fengfan Xiang

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Problem 1

Consider the following marriage problem, where each row denotes the preference of each individual. (m denotes men and w denotes women)

R_{m_1}	R_{m_2}	R_{m_3}	R_{w_1}	R_{w_2}	R_{w_3}
w_2	w_1	w_1	m_1	m_3	m_1
w_1	w_3	w_2	m_3	m_1	m_3
w_3	w_2	w_3	m_2	m_2	m_2

- (a) Show that there are only two stable matches.
- (b) For the match selected by the men-proposing DA, is there any woman who can benefit from misreporting her preferences? Explain in detail.
- (c) For the match selected by the women-proposing DA, is there any man who can benefit from misreporting his preferences? Explain in detail.