CSE 450/551 Mid-Term Soln

Prob 1.

refer to class slides on Stable Motching and also the chapter on Stable

Matching in the recommended text book for the CSE 450/551 class titled

Algorithms by Kleinberg and Tordos.

Problem 2: With choice of an arbitrary element

BK from the sequence S, the set S is

perhitoned into three parts Si, Sz, and Sz.

If the elements (numbers) in the set are

distinct |Sz| = 1 at |S| + |Sz| = n-1

where |S| = n.

The partitioning of S1 at S3 may be even ar uneven. Even implying both even as has about 1/2 elements.

S1 at S3 has about 1/2 elements.

Uneven implying that S1 has n-1 elements at S3 has zero elements, or S3 has n-1 elements at S1 has zero elements