Stable Matching Problem

CSCE 310H

Algorithm Presentation

<https://github.com/zachkozak/StableMatching310H>

### In your write-up, please provide the following (at least one paragraph for each, single column at most 11 font size):

### (1) Provide motivation for the problem you are proposing to solve (including examples, citations, articles, facts, and numbers). (5 pt)

### (2) Describe the problem you are proposing to solve precisely. (5 pt)

### (3) Define formally and mathematically (e.g., input and output) the problem you want to solve. (10pt)

### (4) Describe your solution approaches in words and algorithmically. (15pt)

### (5) Implementation of the algorithms and perform simulations to validate your approaches on real-world or synthetic datasets. (15pt)

### FOR FRIDAY:

### Java implementation using matrices, array, and linked lists for failed proposals

### Try to answer as many of those 5 questions as possible

### Write about why there is always a solution guaranteed

### 1 real-world and 1 synthesized (just for testing java) dataset per person (hopefully turn the real one into test data that we can put into Java)