

1 Stable Matching

Note: Questions devoted with an asterisk (*) tend to be more difficult, so be wary on some of the more advanced material.

- i. Gale and Shapley published their paper on the stable marriage problem in 1962, but a version of their algorithm had already been in use for ten years by the National Resident Matching Program for the problem of assigning medical students to hospitals.

Basically, the situation was the following. There were n hospitals, each with a certain number of available positions for hiring residents. There were n medical students graduating in a given year, each interested in getting one of the hospitals. Each hospital had a ranking of the students in order of preference, and each student had a ranking of the hospitals in order of preference. We will assume that there were more students graduating than there were slots available in the n hospitals.

The general, somewhat, way to finding a way of assigning each student to at most one hospital, in such a way that all available positions in all hospitals were filled. (There are no remaining hospital positions, there could be some students who do not get assigned to any hospital.)

We say that an assignment of students to hospitals is stable if neither of the following situations arise:

- First type of instability: There are students s and s' , and a hospital h , so that
 - s is assigned to h , and
 - s' is assigned to no hospital, and
 - h prefers s' to s .
- Second type of instability: There are students s and s' , and hospitals h and h' , so that
 - s is assigned to h , and
 - s' is assigned to h' , and
 - h prefers s' to s , and
 - s' prefers h to h' .

So we basically have the stable marriage problem from class, except that (i) hospitals generally want more than one resident, and (ii) there is a number of medical students.

Now that there is always a stable assignment of students to hospitals, and give an efficient algorithm to find one. The next one is (3) and (4) stuff, you would like to find an algorithm with this running time.

Notation: The algorithm is very similar to the one from class. It just goes to that: a student is either "connected" to a hospital or "free." A hospital either has available positions, or it is "full." The algorithm is the following:

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