CS3933 Assignment 2
Summer 2007

Due: Tuesday, May 15, in class or by 10:00am in the box on E-level .

- Read all of Chapter 2.
- In the stable marriage problem, assume that the men are identified with the integers $1, 2, 3, \ldots, n$, and that a woman's preferences are stored in an array `list[1 .. n]`, so that `list[1]` stores (the number of) the man who is her first preference, `list[2]` is the man who is her second preference, etc.

  1. Write two lines of code (possibly just one, but it must include a loop) to build an array `pref[1 .. n]` so that one can determine in constant time which of two men `i` and `j` the woman prefers.
  2. Now write the `if ...else` structure using the array `pref` to return the number of the preferred man.

- Do questions 4, 5, 6 and 8 at the end of chapter 2 (pages 67-70).