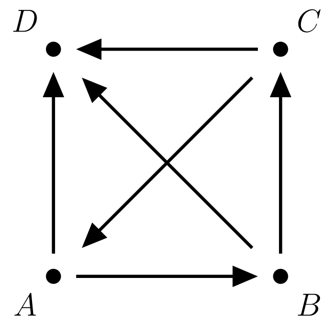
Homework 7: Chapters 4 and 5

Reading: Chapter 5
Exercises:

1. 4.3, 4.5 (Solutions), 4.6 (Solution).
2. 5.3 - prove that Smith fair methods are Condorcet fair directly by definition, not by the sneaky thing from class. (Solution). (on a quiz, either a nicely written version of the proof from class or the direct proof would be acceptable.)
3. 5.2 (Solution)
4. Finish our computation for the example from class:

1	2	1	1	2	2
D	D	D	A	B	C
A	B	C	B	C	A
B	C	A	C	A	B
C	A	B	D	D	D



First compute S to verify that D is the only one with the power to be a weak spoiler. Make sure you understand what that means. Then check if D is a weak spoiler for:

(a) Plurality
(b) Runoff
(c) Instant Runoff/Elimination
(d) Pairwise Comparison
(e) Borda Count

Next Quiz: There will be a proof or counterexample type question on the next quiz! It will be one of the questions from this homework or the Chapter 4 homework.