

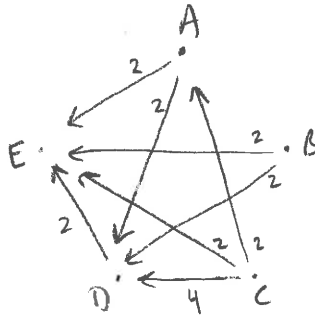
Chapter 5 homework solutions, day 1

3) Suppose a method is Smith fair. If \exists a Condorcet candidate, x , then $S = \{x\}$. Since the method is Smith fair $W \subset S$, but there is only one Smith candidate, so $W = \{x\}$, which means x is the sole winner, and the method is Condorcet fair.

6)

	1	1	1	1
A	E	C	C	
B	B	B	A	
C	C	D	B	
D	A	A	D	
E	D	E	E	

- A:B 2:2
- A:C 1:3
- A:D 3:1
- A:E 3:1
- B:C 2:2
- B:D 3:1
- B:E 3:1
- C:D 4:0
- C:E 3:1
- D:E 3:1



A B C D E
 $\uparrow \cdot \uparrow \cdot \cdot$
 $S = D_c = \{C, B, A\}$