

Social Choice 2/18/21 (optional)

1. Is Dictatorship unanimity-fair?

- (A) Yes, because if someone has all the first-place votes, they must win
- (B) Yes, because if $X > Y$ on every ballot, then Y can't be the Dictator's first choice
- (C) No, because not every election has a unanimous preference
- (D) No, because A might be preferred to B by every voter but B still wins.

Y isn't anyone's first choice!
And only the Dictator's first choice matters.

2. Suppose I want to show that a voting system V is not majority-fair. Which of these is the best way to show that?

- (A) Come up with a voting system W that is majority-fair and show W implies V
- (B) Come up with a preference schedule that has no majority candidate
- (C) Come up with a preference schedule that does have a majority candidate A but where the winner by system V is not A

(D) Show that V never lets majority candidates win

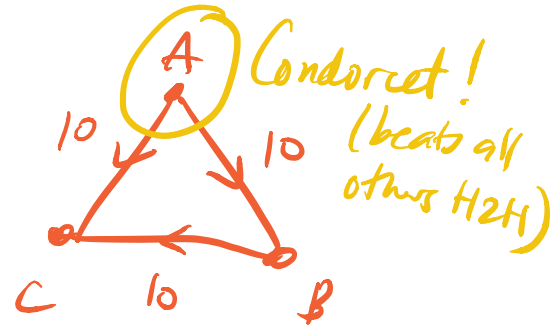
"Majority-fair" means if there is a majority candidate, they must win!
One counterexample is enough to rule that out.

3. Every Condorcet candidate is a majority candidate

- (T) True
- (F) False

Example:

	X10	X10	X10
A	B	C	
B	A	A	
C	C	B	



Here, A is Condorcet with only 1/3 of first-place votes.