

Social Choice 2/9/21 - Borda, majority, PWC

Score 3 pts
(2 for right answers, plus 1 for showing up!)

1. If there are n candidates and N voters, and all voters rank all candidates, what is the lowest possible Borda score any candidate can receive?

- A 1
- B N
- C n
- D $N-n$

The last rank on a ballot earns 1 point, so the worst possible total is 1 point from each voter, or N points overall.

2. Is the PWC system majority-fair? (In other words, would a majority candidate, if there is one, get the most points in a pairwise comparison voting system?)

- A Yes
- B No
- C It depends

A majority candidate must beat all others head to head because they have more than half of the first-choice votes — definitely more than any other after we consolidate.

So they get $n-1$ points in a PWC tournament — the most possible!