Moth 1015 Honework #4

1. Impre X is the vinner using dictatorship, then we drange ballots without moving anyone past X. Then X is still the top choice of the dictator, so X still virs.

Borda: 2. 4 $\frac{3}{B}$ $\frac{2}{D}$ $\frac{3}{C}$ A: 4×4 + 3×3+ 3×2+2×1=33 Ā B: 4×3 + 3×4 + 3×1+2×0 = 27 B A D \mathbf{E} C C C: 4x2+3x2+3x4+2x2 = 30 AС A D D Β D: y x | + 3x / + 3x 3 + 2x4 = 28 (\mathbf{E} \mathbf{E} \mathbf{E} \mathbf{B} C $E: 4 \times 0 + 3 \times 0 + 3 \times 0 + 2 \times 3 = 6$

> A is OG wirner! Now we can move votes around without moving anyone past A:

3 2 4 3 A (bidn't move) : 33 С С B (\mathbf{A}) Ч B '' : 27 E \mathbf{D} В 3 (A)C: 4*2+ 3*2+3×4 + 2×4 = (34 C C r D B D D (D: 4x1+3x1+3x3+2x2 = 24 \mathbf{E} \mathbf{E} \mathbf{E} R D 6 E:

Now C wins, which violates IIA.