To receive full credit for this 25 point Quiz, you must show ALL work.

1. (*25 points*) You are the member of a club with 37 members, and everybody in the club loves a good pizza. So you decided to choose a pizza place by having the members rank their favorite pizza places, with the following choices: Spinellis (S), Boombozz (B), Impellizzeris (I), and Wicks (W). The following preference schedule results:

Number of Voters:	13	10	8	5	1
First	S	B	W	I	B
Second	I	I	B	W	W
Third	B	W	I	B	I
Fourth	W	S	S	S	S

  a. What is the winner using the method of Pairwise Comparisons?

  b. What is the winner using the Borda Count?

  c. Does either voting method show a violation of Condorcet Fairness Criterion? Explain your answer.

  d. Does either voting method show a violation of Majority Criterion? Explain your answer.