

1. Explain why majority rule is not a good way to choose among four alternatives.

Its possible that none of the four will get a majority. The more people, the less the likely to get majority.

2. In order to choose which type of music to listen to in a student center music lounge, a Condorcet vote is held by the 15 students present. Below are the preference schedules for the students. Is there a Condorcet winner and if so, which music type?

	Number of Students		
	6	5	4
First choice	classical	rock	rock
Second choice	jazz	jazz	classical
Third choice	rock	classical	jazz

R	C
5	6
4	
9	6

(R)

R	J
5	6
4	
9	6

(R)

Rock is Condorcet

3. A poll by 15 sports announcers chooses the best basketball team from among three schools: University of Nevada at Las Vegas (LV), University of North Carolina (NC), and Indiana University (IU).

	Number of Announcers			
	5	6	2	2
First choice	LV	NC	IU	NC
Second choice	IU	LV	NC	IU
Third choice	NC	IU	LV	LV

A. If the individual rankings are as summarized in the table, which team wins if they use a rank method that assigns 2, 1, and 0 point(s) to each first, second, and third choice respectively? Which method is this that is being used?

Borda Count

B. If the plurality method is used, who is selected?

North Carolina

LV = 5
 NC = 8
 IU = 2