Jared and 9 of his fans are in a 35-person class that is deciding where to have lunch. The votes are as follows:

		~,							
	25 Ovid's Stud Cent Sci Lib Off Campus	10 Stud Cent Sci Lib Off Campus Ovid's of Borda cour	,,	Ovid's Stud Sci Off	1st 25 10 00	2nd 0 25 10 0	3000	4th 10 00 25 (1)	 100+10 = 110 40+75=(15) 30+50 = 80 20+25 = 45
, , , , , ,	o to one result	or norda com	16.						

Studicent Subway wins with 115 votes

Is it a good decision? OK. Better than Scilib or Offlampus Subway.

However it seems like we asked the wrong question, Instead of
"Which subway?" maybe we should ask "subway or ovid's."

Suppose the decision came down to off campus subway versus any of the other options. Who would win?

Is off campus subway a reasonable choice to even consider?

In a way, no, but every losing candidate would eventually be the worst one left.

Write down the preference schedule with off campus subway removed.

How does Borda count work now?

Ovid's wins

Back to the original 4 options: suppose the decision came down to Ovid's versus any of the other options. Who would win?

Which option sounds best now? What is the problem with this type of thinking?

This group is trying to decide which is best, option A, B, or C.

	6	5	4
1st	A	В	C
2nd	В	$\mathbf{C}$	Α
3rd	C	A	В

How many people prefer A to B? In simpler terms, does the group prefer A to B?

Avs B: 6 + 4 vs 5, 10 to 5, A

What about B to C? In simpler terms does the group prefer B to C?

What about A to C?

A better than B, B better thank, so surely A better than C?

Ars C: 6 vs 5+4, 6 to 9, C Crazy! Conducet Paradox

[6 4 4 3 2] 1st 2nd 3rd

			4				15+	2nd	30)
1st						A	6	4+4	3+2
2nd	В	A	Α	В	C	В	442	6+3	4
3rd	C	С	В	A	Α	Č	4+3	3 a	6+4

Who wins if we just count first place votes?

Who wins each head-to-head matchup? (check all three)

Who wins the most head-to-head matchups?

A wins the most

Who wins if we use Borda Count?

A: 
$$6(3) + (4+4)(2) + (3+2)(1) = 18+16+5 = 39$$
  
B:  $(4+2)(3) + (6+3)(2) + 4(1) = 18+18+9 = 40$   
C:  $(4+3)(3) + 2(2) + (6+4)(1) = 21 + 4 + 10 = 35$   
B wins