Voting Theory - 11

Given each individual's preferences, how to make a "fair" decision for the group?

- Plurality Method: Simple but...
 - · May violate Condorcet Criterion.
 - · Issue of Insincere Voting
- Instant Runoff Voting : Addresses issue of insincere voting but...
 - · May violate Condorcet Criterion.
 - · May violate Monotonicity Criterion.
- Borda Count
- Copeland Method

Borda Count: Seeking Consensus

- · Assign _____ to rankings : 1 for last, 2 for second-to-last...
- · _____ point values for each option.
 - From pref. sched. : _____ points per vote times # votes & add.
- · Option with ____ points wins.

Ex:	# Votes	3	2	3	4
	1st Choice	Reeses'	Reeses'	SKittles	M& Ms
	2 nd Choice	M& Ms	SKittles	M& Ms	SKittles
	3rd Choice	Skittles	M& Ms	Reeses'	Reeses'

Reeses' (Long Way):
$$(3+3+3)+(3+3)+(1+1+1)+(1+1+1+1)=22$$

Shorter Way:

Groups: Find your winner with Borda Count.

Downside 1: May violate _____ which says that if one option has majority lover 50%) of 1st choice votes, that option should win.

However, this method is more ______, because it can choose a more broadly acceptable option; might be an advantage in some situations.

Downside 2: May violate Condorcet Criterion.

Copeland's Method: Head to Head

- · Compare each pair : 1 pt to preferred, 1/2 pt if tie.
- · Option with most points wins.

Ex Reeses' vs M&M's Reeses' vs Skittles M&M's vs Skittles

M&M's Skittles M&M's

Reese's : 0 Skittles: 1 M&M's: 2 (winner)

Downside	J: May vi	olate				Criterion,
	_			option is re	moved from	n the ballot,
that s	should no	effect	the outcon	ne of the	election.	
Downside	e 2: Easi	y to end in	n a			

Groups: Find your winner with Copeland's Method.