16.04 Assignment Instructions

Instructions: Working with the mock election, you will establish deletion algorithms to make updates to the array and ArrayList for the candidates.

- 1. Create a folder called **16.04 Assignment** in your Module assignments folder.
- 2. Copy your ElectionTesterV5.java and ElectionTesterV6.java files to the new folder. Rename V5 to V7 and V6 to V8. Be sure to update the class statement as well to reflect the new versions.
- 3. Modify the ElectionTesterV6 program to include the following:
 - a. a method that will delete a particular candidate by position in the election array. Its arguments should include the array and a position to delete.
 - b. a method that will find a particular candidate by name and delete that candidate. Its arguments should include the array the name of the candidate to delete.
 - c. modify the other methods related to traversing, replacing, and inserting since you are working with an array. They need to work even if the array has some null entries.
- 4. Test your program by calling each of the methods. Be sure to print the election results after each change. See the sample output below. Clearly announce the change that should occur so someone reading your output knows which change occurred.
 - a. delete a candidate by position
 - b. delete a candidate by name
- 5. Now modify the ElectionTesterV8 class that uses an ArrayList to include the same functionality as the array version.
- 6. The final output for V7 and V8 needs to show the insertion and deletion methods in action. Be sure to clearly label each change so you can verify the code worked properly.

Expected Output: This is a sample of the expected output. The details will vary based on design choices you make while completing the project.

BlueJ: Terminal Window - ...

_



X

Options

Candidate	Votes Received	% of Total Votes
Lucy Robertson	6000	18.80
Marie Grace	2400	7.52
Ada Hopper	1111	3.48
Rusty Jordan	1800	5.64
A S	3200	10.03
Hamilton Wilde	9300	29.14
C T	2100	6.58
B R	540	1.69
D N	860	2.69
F L	4600	14.42

Total number of votes cast in election: 31911

<< Delete location 7 >>

Candidate	Votes Received	% of Total Votes
Lucy Robertson	6000	19.13
Marie Grace	2400	7.65
Ada Hopper	1111	3.54
Rusty Jordan	1800	5.74
A S	3200	10.20
Hamilton Wilde	9300	29.65
C T	2100	6.69
D N	860	2.74
F L	4600	14.66

Total number of votes cast in election: 31371

<< Delete Lucy Robertson >>

CC Delege Eddy Robertobon >>			
	Votes	% of Total	
Candidate	Received	Votes	
Marie Grace	2400	9.46	
Ada Hopper	1111	4.38	
Rusty Jordan	1800	7.09	
A S	3200	12.61	
Hamilton Wilde	9300	36.66	
C T	2100	8.28	
D N	860	3.39	
F L	4600	18.13	

Total number of votes cast in election: 25371

