

07.05 Assignment Instructions

Instructions: Create a mock election project to demonstrate traversal algorithms, using the results of a mock election with an arrays and `ArrayList`.

1. Create a folder called **07.05 Assignment** in your Module 07 assignments folder.
2. Copy your `ElectionTesterV1.java` and `ElectionTesterV2.java` files to the new folder. Rename V1 to V3 and V2 to V4. Be sure to update the class statement as well, to reflect the new versions.
3. Modify the `ElectionTesterV3` program to include the following:
 - a. a method that will find a particular candidate by name and change the name for that candidate. Its arguments should include the array, a name to find, and the replacement name.
 - b. a method that will find a particular candidate by name and change the number of votes for that candidate. Its arguments should include the array, a name to find, and the replacement votes.
 - c. a method that will find a particular candidate by name and replace both the name and number of votes for that candidate. Its arguments should include the array, a name to find, the replacement name, and the replacement votes.
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. change a candidate's name
 - b. change a candidate's vote count
 - c. change a candidate by replacing the name and number of votes
5. Now modify the `ElectionTesterV4` class that uses an `ArrayList` to include the same functionality as the array version.

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 - Module 7
Options
Original Results:

Candidate          Votes          % of Total
                   Recieved         Votes
=====
Tony Stark         751          40.46
Henry Pym          496          26.72
Bruce Banner       303          16.33
S_____ R_____ 225          12.12
C_____ D_____  81           4.36

The total number of votes is: 1856
<< Changing Bruce Banner to Stan Lee >>

Candidate          Votes          % of Total
                   Recieved         Votes
=====
Tony Stark         751          40.46
Henry Pym          496          26.72
Stan Lee           303          16.33
S_____ R_____ 225          12.12
C_____ D_____  81           4.36

The total number of votes is: 1856

<<Changing Henry Pym votes to 284>>

Candidate          Votes          % of Total
                   Recieved         Votes
=====
Tony Stark         751          45.68
Henry Pym          284          17.27
Stan Lee           303          18.43
S_____ R_____ 225          13.69
C_____ D_____  81           4.93

The total number of votes is: 1644
```





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