Third Activity

Sept. 9, 2010

Go to sheet 2 of the spreadsheet; there you'll find 0s, 1s, 2s for missing, yea, and nay votes respectively. Make Sheet 3 have a table like that on page two (senators-by-votes), where a cell should contain 1, when the senator's vote on a bill agrees with Ted Kennedy's vote on that bill, −1 when it disagrees, and 0 when either Ted or the Senator was absent. Before you do so, think for a moment and decide what Ted Kennedy's row in this new sheet should look like.

Warning: when you click on data in the pivot table, Excel may give you a fancy address involving GetPivotData(...); replace that with a normal address like Sheet2!B5.

- 2. When you've built that new table of 1s, 0s, and -1s, add two columns on the right-hand side, one of which counts agreements with Ted, one that counts disagreements. (Hint: use CountIf). Then add a final column Ted-ness that shows (agree-disagree)/(agree+disagree). This equation should give us a similarity value to Ted that is between -1 and 1. Take a second to think about why this happens.
- 3. Now select the entire table and sort in decreasing order of Ted-ness. Look at the resulting data. Do you see anything surprising? Try to explain any surprises.