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Project 3 Report

Notable Obstacles:

Reading the spec carefully to not miss details (such as the comma problem)

Creating test cases

Description:

hasProperSyntax

make string all uppercase

iterate repeatedly through string:

check if comma or end of string

if yes, check if temporary string is valid state forecast and reset temp string

if no, add character to temporary string

isStateForecast

check if statecode is valid

repeatedly:

check next 2 characters if it is valid party result

check next 3 characters if it is valid party result

(only one of above is valid)

then move iterator to appropriate location

isPartyResult

checks if length is 2 or 3

checks whether first char or first two are digits

checks if last char is letter

tallySeats

make string uppercase

check if valid poll data string

check if party is valid

make party uppercase

iterate repeatedly through string:

check if character matches party

check if preceding character is number

add to count

check character two before for number

add to count

Test Data:

hasProperSyntax:

“” (Check if empty string works since it is edge case)

“,” (Test if program does not allow empty state forecasts)

“HI” or “HI,AK” (test if program works with just state code/state codes)

“H” (test for non state code)

“hi, ak” (test if program fails cases with spaces)

“ca”, “Hi”, “oK”, “NY” (test all forms of lowercase/uppercase state codes)

“ca4d”, “ny5d3z”, “AL5P3R” (test for party result/results)

“hi4d5L” (test for uppercase/lowercase parties)

“ca2d34f” (test for both one digit and two digit representatives)

“ca123d” (test for three digit and higher representatives)

“ca12%” (test for non letter party)

“cad” (test for zero digit party)

“Ca 5d” (test for unnecessary spaces)

“Ca4d5r,hi3f” (test for multiple state forecasts)

“ne00d” (test for double zeroes)

“ny1a2b3c4d” (test for multiple party results)

"ZT5D,NY9R17D1I,VT,ne3r00D" (test everything put together)

“zt5+5d” (test for non letters or numbers)

tallySeats

"ZT5D,NY9R17D1I,VT,ne3r00D”, ‘d’/‘D’ 0 (test if for lowercase and uppercase party letter)

"ZT5D,NY9R17D1I,VT,ne3r00D" ‘$’ 0 (test for non-letter party)

"ZT5D,NY9R17D1I,VT,ne3r00D" ‘$’ -999 (test to see if seatTally is still same as passed in)

"ZT5D,NY9R17D1I,VT,ne3r00D" ‘z’ (test for party not in string)

“Ca”, ‘p’ (test for no party results)

“” ‘O’ (test for empty string)