# HW11.R

xboxv

2020-04-26

```
library(readr)

## Warning: package 'readr' was built under R version 3.6.3

library(tm)

## Warning: package 'tm' was built under R version 3.6.3

## Loading required package: NLP

library(wordcloud)

## Warning: package 'wordcloud' was built under R version 3.6.3

## Loading required package: RColorBrewer

#Step 1: Read in the positive and negative word files


positive <- "HW11 - positive-words.txt"

negitive <- "HW11 - negative-words.txt"

# separate each word
pos <- scan(file.choose(), character(0),sep = "\n")
neg <- scan(file.choose(), character(0),sep = "\n")

pos

##    [1] ";;;;
```

```
##   [12] ";   Minqing Hu and Bing Liu. \"Mining and Summarizing Customer Rev
iews.\" "
##   [13] ";       Proceedings of the ACM SIGKDD International Conference on
Knowledge "
##   [14] ";       Discovery and Data Mining (KDD-2004), Aug 22-25, 2004, Sea
ttle, "
##   [15] ";       Washington, USA, "
##   [16] ";   Bing Liu, Minqing Hu and Junsheng Cheng. \"Opinion Observer: A
nalyzing "
##   [17] ";       and Comparing Opinions on the Web.\" Proceedings of the 14
th "
##   [18] ";       International World Wide Web conference (WWW-2005), May 10
-14, "
##   [19] ";       2005, Chiba, Japan."
##   [20] ";"
##   [21] "; Notes: "
##   [22] ";    1. The appearance of an opinion word in a sentence does not n
ecessarily  "
##   [23] ";       mean that the sentence expresses a positive or negative op
inion. "
##   [24] ";       See the paper below:"
##   [25] ";"
##   [26] ";       Bing Liu. \"Sentiment Analysis and Subjectivity.\" An chap
ter in "
##   [27] ";          Handbook of Natural Language Processing, Second Edition
, "
##   [28] ";          (editors: N. Indurkhya and F. J. Damerau), 2010."
##   [29] ";"
##   [30] ";    2. You will notice many misspelled words in the list. They ar
e not "
##   [31] ";       mistakes. They are included as these misspelled words appe
ar "
##   [32] ";       frequently in social media content. "
##   [33] ";"
##   [34] ";;;;
```

```
##   [49] "accomplish"
##   [50] "accomplished"
##   [51] "accomplishment"
##   [52] "accomplishments"
##   [53] "accurate"
##   [54] "accurately"
##   [55] "achievable"
##   [56] "achievement"
##   [57] "achievements"
##   [58] "achievible"
##   [59] "acumen"
##   [60] "adaptable"
##   [61] "adaptive"
##   [62] "adequate"
##   [63] "adjustable"
##   [64] "admirable"
##   [65] "admirably"
##   [66] "admiration"
##   [67] "admire"
##   [68] "admirer"
##   [69] "admiring"
##   [70] "admiringly"
##   [71] "adorable"
##   [72] "adore"
##   [73] "adored"
##   [74] "adorer"
##   [75] "adoring"
##   [76] "adoringly"
##   [77] "adroit"
##   [78] "adroitly"
##   [79] "adulate"
##   [80] "adulation"
##   [81] "adulatory"
##   [82] "advanced"
##   [83] "advantage"
##   [84] "advantageous"
##   [85] "advantageously"
##   [86] "advantages"
##   [87] "adventuresome"
##   [88] "adventurous"
##   [89] "advocate"
##   [90] "advocated"
##   [91] "advocates"
##   [92] "affability"
##   [93] "affable"
##   [94] "affably"
##   [95] "affectation"
##   [96] "affection"
##   [97] "affectionate"
##   [98] "affinity"
```

```
##   [99] "affirm"
##  [100] "affirmation"
##  [101] "affirmative"
##  [102] "affluence"
##  [103] "affluent"
##  [104] "afford"
##  [105] "affordable"
##  [106] "affordably"
##  [107] "afordable"
##  [108] "agile"
##  [109] "agilely"
##  [110] "agility"
##  [111] "agreeable"
##  [112] "agreeableness"
##  [113] "agreeably"
##  [114] "all-around"
##  [115] "alluring"
##  [116] "alluringly"
##  [117] "altruistic"
##  [118] "altruistically"
##  [119] "amaze"
##  [120] "amazed"
##  [121] "amazement"
##  [122] "amazes"
##  [123] "amazing"
##  [124] "amazingly"
##  [125] "ambitious"
##  [126] "ambitiously"
##  [127] "ameliorate"
##  [128] "amenable"
##  [129] "amenity"
##  [130] "amiability"
##  [131] "amiabily"
##  [132] "amiable"
##  [133] "amicability"
##  [134] "amicable"
##  [135] "amicably"
##  [136] "amity"
##  [137] "ample"
##  [138] "amply"
##  [139] "amuse"
##  [140] "amusing"
##  [141] "amusingly"
##  [142] "angel"
##  [143] "angelic"
##  [144] "apotheosis"
##  [145] "appeal"
##  [146] "appealing"
##  [147] "applaud"
##  [148] "appreciable"
```

```
##  [149] "appreciate"
##  [150] "appreciated"
##  [151] "appreciates"
##  [152] "appreciative"
##  [153] "appreciatively"
##  [154] "appropriate"
##  [155] "approval"
##  [156] "approve"
##  [157] "ardent"
##  [158] "ardently"
##  [159] "ardor"
##  [160] "articulate"
##  [161] "aspiration"
##  [162] "aspirations"
##  [163] "aspire"
##  [164] "assurance"
##  [165] "assurances"
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##  [167] "assuredly"
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##  [171] "astonishing"
##  [172] "astonishingly"
##  [173] "astonishment"
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##  [176] "astounding"
##  [177] "astoundingly"
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##  [180] "attraction"
##  [181] "attractive"
##  [182] "attractively"
##  [183] "attune"
##  [184] "audible"
##  [185] "audibly"
##  [186] "auspicious"
##  [187] "authentic"
##  [188] "authoritative"
##  [189] "autonomous"
##  [190] "available"
##  [191] "aver"
##  [192] "avid"
##  [193] "avidly"
##  [194] "award"
##  [195] "awarded"
##  [196] "awards"
##  [197] "awe"
##  [198] "awed"
```

```
##  [199] "awesome"
##  [200] "awesomely"
##  [201] "awesomeness"
##  [202] "awestruck"
##  [203] "awsome"
##  [204] "backbone"
##  [205] "balanced"
##  [206] "bargain"
##  [207] "beauteous"
##  [208] "beautiful"
##  [209] "beautifullly"
##  [210] "beautifully"
##  [211] "beautify"
##  [212] "beauty"
##  [213] "beckon"
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##  [215] "beckoning"
##  [216] "beckons"
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##  [218] "believeable"
##  [219] "beloved"
##  [220] "benefactor"
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##  [223] "beneficially"
##  [224] "beneficiary"
##  [225] "benefit"
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##  [227] "benevolence"
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##  [232] "best-performing"
##  [233] "best-selling"
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##  [235] "better-known"
##  [236] "better-than-expected"
##  [237] "beutifully"
##  [238] "blameless"
##  [239] "bless"
##  [240] "blessing"
##  [241] "bliss"
##  [242] "blissful"
##  [243] "blissfully"
##  [244] "blithe"
##  [245] "blockbuster"
##  [246] "bloom"
##  [247] "blossom"
##  [248] "bolster"
```

```
##  [249] "bonny"
##  [250] "bonus"
##  [251] "bonuses"
##  [252] "boom"
##  [253] "booming"
##  [254] "boost"
##  [255] "boundless"
##  [256] "bountiful"
##  [257] "brainiest"
##  [258] "brainy"
##  [259] "brand-new"
##  [260] "brave"
##  [261] "bravery"
##  [262] "bravo"
##  [263] "breakthrough"
##  [264] "breakthroughs"
##  [265] "breathlessness"
##  [266] "breathtaking"
##  [267] "breathtakingly"
##  [268] "breeze"
##  [269] "bright"
##  [270] "brighten"
##  [271] "brighter"
##  [272] "brightest"
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##  [275] "brilliant"
##  [276] "brilliantly"
##  [277] "brisk"
##  [278] "brotherly"
##  [279] "bullish"
##  [280] "buoyant"
##  [281] "cajole"
##  [282] "calm"
##  [283] "calming"
##  [284] "calmness"
##  [285] "capability"
##  [286] "capable"
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##  [288] "captivate"
##  [289] "captivating"
##  [290] "carefree"
##  [291] "cashback"
##  [292] "cashbacks"
##  [293] "catchy"
##  [294] "celebrate"
##  [295] "celebrated"
##  [296] "celebration"
##  [297] "celebratory"
##  [298] "champ"
```

```
##  [299] "champion"
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##  [301] "charismatic"
##  [302] "charitable"
##  [303] "charm"
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##  [307] "cheaper"
##  [308] "cheapest"
##  [309] "cheer"
##  [310] "cheerful"
##  [311] "cheery"
##  [312] "cherish"
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##  [314] "cherub"
##  [315] "chic"
##  [316] "chivalrous"
##  [317] "chivalry"
##  [318] "civility"
##  [319] "civilize"
##  [320] "clarity"
##  [321] "classic"
##  [322] "classy"
##  [323] "clean"
##  [324] "cleaner"
##  [325] "cleanest"
##  [326] "cleanliness"
##  [327] "cleanly"
##  [328] "clear"
##  [329] "clear-cut"
##  [330] "cleared"
##  [331] "clearer"
##  [332] "clearly"
##  [333] "clears"
##  [334] "clever"
##  [335] "cleverly"
##  [336] "cohere"
##  [337] "coherence"
##  [338] "coherent"
##  [339] "cohesive"
##  [340] "colorful"
##  [341] "comely"
##  [342] "comfort"
##  [343] "comfortable"
##  [344] "comfortably"
##  [345] "comforting"
##  [346] "comfy"
##  [347] "commend"
##  [348] "commendable"
```

```
##  [349] "commendably"
##  [350] "commitment"
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##  [353] "compactly"
##  [354] "compassion"
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##  [370] "confident"
##  [371] "congenial"
##  [372] "congratulate"
##  [373] "congratulation"
##  [374] "congratulations"
##  [375] "congratulatory"
##  [376] "conscientious"
##  [377] "considerate"
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##  [380] "constructive"
##  [381] "consummate"
##  [382] "contentment"
##  [383] "continuity"
##  [384] "contrasty"
##  [385] "contribution"
##  [386] "convenience"
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##  [389] "convience"
##  [390] "convienient"
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##  [392] "convincing"
##  [393] "convincingly"
##  [394] "cool"
##  [395] "coolest"
##  [396] "cooperative"
##  [397] "cooperatively"
##  [398] "cornerstone"
```

```
##  [399] "correct"
##  [400] "correctly"
##  [401] "cost-effective"
##  [402] "cost-saving"
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##  [404] "counter-attacks"
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##  [407] "courageously"
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##  [409] "courteous"
##  [410] "courtly"
##  [411] "covenant"
##  [412] "cozy"
##  [413] "creative"
##  [414] "credence"
##  [415] "credible"
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##  [417] "crisper"
##  [418] "cure"
##  [419] "cure-all"
##  [420] "cushy"
##  [421] "cute"
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##  [424] "danken"
##  [425] "daring"
##  [426] "daringly"
##  [427] "darling"
##  [428] "dashing"
##  [429] "dauntless"
##  [430] "dawn"
##  [431] "dazzle"
##  [432] "dazzled"
##  [433] "dazzling"
##  [434] "dead-cheap"
##  [435] "dead-on"
##  [436] "decency"
##  [437] "decent"
##  [438] "decisive"
##  [439] "decisiveness"
##  [440] "dedicated"
##  [441] "defeat"
##  [442] "defeated"
##  [443] "defeating"
##  [444] "defeats"
##  [445] "defender"
##  [446] "deference"
##  [447] "deft"
##  [448] "deginified"
```

```
##  [449] "delectable"
##  [450] "delicacy"
##  [451] "delicate"
##  [452] "delicious"
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##  [454] "delighted"
##  [455] "delightful"
##  [456] "delightfully"
##  [457] "delightfulness"
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##  [463] "desiring"
##  [464] "desirous"
##  [465] "destiny"
##  [466] "detachable"
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##  [476] "diligently"
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##  [478] "dirt-cheap"
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##  [482] "diversified"
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##  [490] "doubtless"
##  [491] "dreamland"
##  [492] "dumbfounded"
##  [493] "dumbfounding"
##  [494] "dummy-proof"
##  [495] "durable"
##  [496] "dynamic"
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##  [498] "eagerly"
```

```
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##  [502] "earnestness"
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##  [507] "easiest"
##  [508] "easiness"
##  [509] "easing"
##  [510] "easy"
##  [511] "easy-to-use"
##  [512] "easygoing"
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##  [514] "ebullient"
##  [515] "ebulliently"
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##  [536] "effusiveness"
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##  [540] "elatedly"
##  [541] "elation"
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##  [543] "elegance"
##  [544] "elegant"
##  [545] "elegantly"
##  [546] "elevate"
##  [547] "elite"
##  [548] "eloquence"
```

```
##  [549] "eloquent"
##  [550] "eloquently"
##  [551] "embolden"
##  [552] "eminence"
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##  [563] "encouragement"
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##  [565] "encouragingly"
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##  [575] "energy-efficient"
##  [576] "energy-saving"
##  [577] "engaging"
##  [578] "engrossing"
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##  [587] "enjoying"
##  [588] "enjoyment"
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##  [591] "enlightenment"
##  [592] "enliven"
##  [593] "ennoble"
##  [594] "enough"
##  [595] "enrapt"
##  [596] "enrapture"
##  [597] "enraptured"
##  [598] "enrich"
```

```
##  [599] "enrichment"
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##  [602] "entertaining"
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##  [605] "enthrall"
##  [606] "enthralled"
##  [607] "enthuse"
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##  [609] "enthusiast"
##  [610] "enthusiastic"
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##  [615] "enticingly"
##  [616] "entranced"
##  [617] "entrancing"
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##  [621] "envious"
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##  [624] "envy"
##  [625] "equitable"
##  [626] "ergonomical"
##  [627] "err-free"
##  [628] "erudite"
##  [629] "ethical"
##  [630] "eulogize"
##  [631] "euphoria"
##  [632] "euphoric"
##  [633] "euphorically"
##  [634] "evaluative"
##  [635] "evenly"
##  [636] "eventful"
##  [637] "everlasting"
##  [638] "evocative"
##  [639] "exalt"
##  [640] "exaltation"
##  [641] "exalted"
##  [642] "exaltedly"
##  [643] "exalting"
##  [644] "exaltingly"
##  [645] "examplar"
##  [646] "examplary"
##  [647] "excallent"
##  [648] "exceed"
```

```
##  [649] "exceeded"
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##  [652] "exceeds"
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##  [655] "excelent"
##  [656] "excellant"
##  [657] "excelled"
##  [658] "excellence"
##  [659] "excellency"
##  [660] "excellent"
##  [661] "excellently"
##  [662] "excels"
##  [663] "exceptional"
##  [664] "exceptionally"
##  [665] "excite"
##  [666] "excited"
##  [667] "excitedly"
##  [668] "excitedness"
##  [669] "excitement"
##  [670] "excites"
##  [671] "exciting"
##  [672] "excitingly"
##  [673] "exellent"
##  [674] "exemplar"
##  [675] "exemplary"
##  [676] "exhilarate"
##  [677] "exhilarating"
##  [678] "exhilaratingly"
##  [679] "exhilaration"
##  [680] "exonerate"
##  [681] "expansive"
##  [682] "expeditiously"
##  [683] "expertly"
##  [684] "exquisite"
##  [685] "exquisitely"
##  [686] "extol"
##  [687] "extoll"
##  [688] "extraordinarily"
##  [689] "extraordinary"
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##  [691] "exuberant"
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neg

##    [1] ";;;;
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```
##    [5] "; This file contains a list of NEGATIVE opinion words (or sentimen
t words)."
##    [6] ";"
##    [7] "; This file and the papers can all be downloaded from "
##    [8] ";    http://www.cs.uic.edu/~liub/FBS/sentiment-analysis.html"
##    [9] ";"
##   [10] "; If you use this list, please cite one of the following two paper
s:"
##   [11] ";"
##   [12] ";   Minqing Hu and Bing Liu. \"Mining and Summarizing Customer Rev
iews.\" "
##   [13] ";       Proceedings of the ACM SIGKDD International Conference on
Knowledge "
##   [14] ";       Discovery and Data Mining (KDD-2004), Aug 22-25, 2004, Sea
ttle, "
##   [15] ";       Washington, USA, "
##   [16] ";   Bing Liu, Minqing Hu and Junsheng Cheng. \"Opinion Observer: A
nalyzing "
##   [17] ";       and Comparing Opinions on the Web.\" Proceedings of the 14
th "
##   [18] ";       International World Wide Web conference (WWW-2005), May 10
-14, "
##   [19] ";       2005, Chiba, Japan."
##   [20] ";"
##   [21] "; Notes: "
##   [22] ";    1. The appearance of an opinion word in a sentence does not n
ecessarily  "
##   [23] ";       mean that the sentence expresses a positive or negative op
inion. "
##   [24] ";       See the paper below:"
##   [25] ";"
##   [26] ";       Bing Liu. \"Sentiment Analysis and Subjectivity.\" An chap
ter in "
##   [27] ";          Handbook of Natural Language Processing, Second Edition
, "
##   [28] ";          (editors: N. Indurkhya and F. J. Damerau), 2010."
##   [29] ";"
##   [30] ";    2. You will notice many misspelled words in the list. They ar
e not "
##   [31] ";       mistakes. They are included as these misspelled words appe
ar "
##   [32] ";       frequently in social media content. "
##   [33] ";"
##   [34] ";;;;
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##   [50] "abscond"
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## [4255] "tension"
## [4256] "tentative"
## [4257] "tentatively"
## [4258] "tenuous"
## [4259] "tenuously"
## [4260] "tepid"
## [4261] "terrible"
## [4262] "terribleness"
## [4263] "terribly"
## [4264] "terror"
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## [4266] "terrorism"
## [4267] "terrorize"
## [4268] "testily"
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## [4270] "tetchily"
## [4271] "tetchy"
## [4272] "thankless"
## [4273] "thicker"
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## [4275] "thorny"
## [4276] "thoughtless"
## [4277] "thoughtlessly"
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## [4279] "thrash"
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## [4281] "threaten"
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## [4283] "threats"
## [4284] "threesome"
## [4285] "throb"
## [4286] "throbbed"
## [4287] "throbbing"
## [4288] "throbs"
## [4289] "throttle"
```

```
## [4290] "thug"
## [4291] "thumb-down"
## [4292] "thumbs-down"
## [4293] "thwart"
## [4294] "time-consuming"
## [4295] "timid"
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## [4298] "timidness"
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## [4304] "tiring"
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## [4307] "toll"
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## [4309] "topple"
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## [4328] "tragedy"
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## [4330] "tragically"
## [4331] "traitor"
## [4332] "traitorous"
## [4333] "traitorously"
## [4334] "tramp"
## [4335] "trample"
## [4336] "transgress"
## [4337] "transgression"
## [4338] "trap"
## [4339] "traped"
```

```
## [4340] "trapped"
## [4341] "trash"
## [4342] "trashed"
## [4343] "trashy"
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## [4352] "treacherously"
## [4353] "treachery"
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## [4381] "two-faces"
## [4382] "tyrannical"
## [4383] "tyrannically"
## [4384] "tyranny"
## [4385] "tyrant"
## [4386] "ugh"
## [4387] "uglier"
## [4388] "ugliest"
## [4389] "ugliness"
```

```
## [4390] "ugly"
## [4391] "ulterior"
## [4392] "ultimatum"
## [4393] "ultimatums"
## [4394] "ultra-hardline"
## [4395] "un-viewable"
## [4396] "unable"
## [4397] "unacceptable"
## [4398] "unacceptablely"
## [4399] "unacceptably"
## [4400] "unaccessible"
## [4401] "unaccustomed"
## [4402] "unachievable"
## [4403] "unaffordable"
## [4404] "unappealing"
## [4405] "unattractive"
## [4406] "unauthentic"
## [4407] "unavailable"
## [4408] "unavoidably"
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## [4410] "unbearablely"
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## [4412] "unbelievably"
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## [4415] "uncivil"
## [4416] "uncivilized"
## [4417] "unclean"
## [4418] "unclear"
## [4419] "uncollectible"
## [4420] "uncomfortable"
## [4421] "uncomfortably"
## [4422] "uncomfy"
## [4423] "uncompetitive"
## [4424] "uncompromising"
## [4425] "uncompromisingly"
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## [4427] "unconstitutional"
## [4428] "uncontrolled"
## [4429] "unconvincing"
## [4430] "unconvincingly"
## [4431] "uncooperative"
## [4432] "uncouth"
## [4433] "uncreative"
## [4434] "undecided"
## [4435] "undefined"
## [4436] "undependability"
## [4437] "undependable"
## [4438] "undercut"
## [4439] "undercuts"
```

```
## [4440] "undercutting"
## [4441] "underdog"
## [4442] "underestimate"
## [4443] "underlings"
## [4444] "undermine"
## [4445] "undermined"
## [4446] "undermines"
## [4447] "undermining"
## [4448] "underpaid"
## [4449] "underpowered"
## [4450] "undersized"
## [4451] "undesirable"
## [4452] "undetermined"
## [4453] "undid"
## [4454] "undignified"
## [4455] "undissolved"
## [4456] "undocumented"
## [4457] "undone"
## [4458] "undue"
## [4459] "unease"
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## [4461] "uneasiness"
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## [4471] "unexplained"
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## [4473] "unfaithful"
## [4474] "unfaithfully"
## [4475] "unfamiliar"
## [4476] "unfavorable"
## [4477] "unfeeling"
## [4478] "unfinished"
## [4479] "unfit"
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## [4481] "unforgiving"
## [4482] "unfortunate"
## [4483] "unfortunately"
## [4484] "unfounded"
## [4485] "unfriendly"
## [4486] "unfulfilled"
## [4487] "unfunded"
## [4488] "ungovernable"
## [4489] "ungrateful"
```

```
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## [4493] "unhealthy"
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## [4537] "unpredictable"
## [4538] "unprepared"
## [4539] "unproductive"
```

```
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## [4543] "unproven"
## [4544] "unproves"
## [4545] "unproving"
## [4546] "unqualified"
## [4547] "unravel"
## [4548] "unraveled"
## [4549] "unreachable"
## [4550] "unreadable"
## [4551] "unrealistic"
## [4552] "unreasonable"
## [4553] "unreasonably"
## [4554] "unrelenting"
## [4555] "unrelentingly"
## [4556] "unreliability"
## [4557] "unreliable"
## [4558] "unresolved"
## [4559] "unresponsive"
## [4560] "unrest"
## [4561] "unruly"
## [4562] "unsafe"
## [4563] "unsatisfactory"
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## [4566] "unscrupulously"
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## [4570] "unsettled"
## [4571] "unsettling"
## [4572] "unsettlingly"
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## [4574] "unsophisticated"
## [4575] "unsound"
## [4576] "unspeakable"
## [4577] "unspeakablely"
## [4578] "unspecified"
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## [4581] "unsteadiness"
## [4582] "unsteady"
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## [4584] "unsuccessfully"
## [4585] "unsupported"
## [4586] "unsupportive"
## [4587] "unsure"
## [4588] "unsuspecting"
## [4589] "unsustainable"
```

```
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## [4591] "untested"
## [4592] "unthinkable"
## [4593] "unthinkably"
## [4594] "untimely"
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## [4601] "unuseable"
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## [4606] "unwanted"
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## [4608] "unwatchable"
## [4609] "unwelcome"
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## [4618] "unworthy"
## [4619] "unyielding"
## [4620] "upbraid"
## [4621] "upheaval"
## [4622] "uprising"
## [4623] "uproar"
## [4624] "uproarious"
## [4625] "uproariously"
## [4626] "uproarous"
## [4627] "uproarously"
## [4628] "uproot"
## [4629] "upset"
## [4630] "upseting"
## [4631] "upsets"
## [4632] "upsetting"
## [4633] "upsettingly"
## [4634] "urgent"
## [4635] "useless"
## [4636] "usurp"
## [4637] "usurper"
## [4638] "utterly"
## [4639] "vagrant"
```

```
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## [4642] "vain"
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## [4644] "vanity"
## [4645] "vehement"
## [4646] "vehemently"
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## [4653] "venomously"
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## [4655] "vestiges"
## [4656] "vex"
## [4657] "vexation"
## [4658] "vexing"
## [4659] "vexingly"
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## [4663] "vibrating"
## [4664] "vibration"
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## [4666] "vicious"
## [4667] "viciously"
## [4668] "viciousness"
## [4669] "victimize"
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## [4671] "vileness"
## [4672] "vilify"
## [4673] "villainous"
## [4674] "villainously"
## [4675] "villains"
## [4676] "villian"
## [4677] "villianous"
## [4678] "villianously"
## [4679] "villify"
## [4680] "vindictive"
## [4681] "vindictively"
## [4682] "vindictiveness"
## [4683] "violate"
## [4684] "violation"
## [4685] "violator"
## [4686] "violators"
## [4687] "violent"
## [4688] "violently"
## [4689] "viper"
```

```
## [4690] "virulence"
## [4691] "virulent"
## [4692] "virulently"
## [4693] "virus"
## [4694] "vociferous"
## [4695] "vociferously"
## [4696] "volatile"
## [4697] "volatility"
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## [4700] "vomiting"
## [4701] "vomits"
## [4702] "vulgar"
## [4703] "vulnerable"
## [4704] "wack"
## [4705] "wail"
## [4706] "wallow"
## [4707] "wane"
## [4708] "waning"
## [4709] "wanton"
## [4710] "war-like"
## [4711] "warily"
## [4712] "wariness"
## [4713] "warlike"
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## [4715] "warning"
## [4716] "warp"
## [4717] "warped"
## [4718] "wary"
## [4719] "washed-out"
## [4720] "waste"
## [4721] "wasted"
## [4722] "wasteful"
## [4723] "wastefulness"
## [4724] "wasting"
## [4725] "water-down"
## [4726] "watered-down"
## [4727] "wayward"
## [4728] "weak"
## [4729] "weaken"
## [4730] "weakening"
## [4731] "weaker"
## [4732] "weakness"
## [4733] "weaknesses"
## [4734] "weariness"
## [4735] "wearisome"
## [4736] "weary"
## [4737] "wedge"
## [4738] "weed"
## [4739] "weep"
```

```
## [4740] "weird"
## [4741] "weirdly"
## [4742] "wheedle"
## [4743] "whimper"
## [4744] "whine"
## [4745] "whining"
## [4746] "whiny"
## [4747] "whips"
## [4748] "whore"
## [4749] "whores"
## [4750] "wicked"
## [4751] "wickedly"
## [4752] "wickedness"
## [4753] "wild"
## [4754] "wildly"
## [4755] "wiles"
## [4756] "wilt"
## [4757] "wily"
## [4758] "wimpy"
## [4759] "wince"
## [4760] "wobble"
## [4761] "wobbled"
## [4762] "wobbles"
## [4763] "woe"
## [4764] "woebegone"
## [4765] "woeful"
## [4766] "woefully"
## [4767] "womanizer"
## [4768] "womanizing"
## [4769] "worn"
## [4770] "worried"
## [4771] "worriedly"
## [4772] "worrier"
## [4773] "worries"
## [4774] "worrisome"
## [4775] "worry"
## [4776] "worrying"
## [4777] "worryingly"
## [4778] "worse"
## [4779] "worsen"
## [4780] "worsening"
## [4781] "worst"
## [4782] "worthless"
## [4783] "worthlessly"
## [4784] "worthlessness"
## [4785] "wound"
## [4786] "wounds"
## [4787] "wrangle"
## [4788] "wrath"
## [4789] "wreak"
```

```
## [4790] "wreaked"
## [4791] "wreaks"
## [4792] "wreck"
## [4793] "wrest"
## [4794] "wrestle"
## [4795] "wretch"
## [4796] "wretched"
## [4797] "wretchedly"
## [4798] "wretchedness"
## [4799] "wrinkle"
## [4800] "wrinkled"
## [4801] "wrinkles"
## [4802] "wrip"
## [4803] "wripped"
## [4804] "wripping"
## [4805] "writhe"
## [4806] "wrong"
## [4807] "wrongful"
## [4808] "wrongly"
## [4809] "wrought"
## [4810] "yawn"
## [4811] "zap"
## [4812] "zapped"
## [4813] "zaps"
## [4814] "zealot"
## [4815] "zealous"
## [4816] "zealously"
## [4817] "zombie"
```

```
#Clean the dataset

p <- pos[-1:-34]
n <- neg[-1:-34]

head(p,10)
```

```
##  [1] "a+"          "abound"      "abounds"     "abundance"   "abundant"
##  [6] "accessable"  "accessible"  "acclaim"     "acclaimed"   "acclamation"
```

```
head(n,10)
```

```
##  [1] "2-faced"     "2-faces"     "abnormal"    "abolish"     "abominable"
##  [6] "abominably"  "abominate"   "abomination" "abort"       "aborted"
```

```
#Step 2: Process in the MLK speech

speech <- readLines(file.choose())
```

```
## Warning in readLines(file.choose()): incomplete final line found on 'C:
## \Users\xboxv\Documents\mlk speech.txt'
```

```r
str(speech)
```

```
##  chr [1:51] "I am happy to join with you today in what will go down in his
tory as the greatest demonstration for freedom in "| __truncated__ ...
```

```r
words.vec <- VectorSource(speech)
words.corpus <- Corpus(words.vec)
words.corpus
```

```
## <<SimpleCorpus>>
## Metadata:  corpus specific: 1, document level (indexed): 0
## Content:  documents: 51
```

```r
doc <- TermDocumentMatrix(words.corpus)
doc
```

```
## <<TermDocumentMatrix (terms: 332, documents: 51)>>
## Non-/sparse entries: 544/16388
## Sparsity           : 97%
## Maximal term length: 15
## Weighting          : term frequency (tf)
```

```r
m <- as.matrix(doc)
wordCounts <- rowSums(m)
head(wordCounts)
```

```
## demonstration          down           for       freedom      greatest
##             1             2             4            13             1
##         happy
##             1
```

```r
words.corpus <- tm_map(words.corpus, content_transformer(tolower))
```

```
## Warning in tm_map.SimpleCorpus(words.corpus, content_transformer(tolower))
:
## transformation drops documents
```

```r
words.corpus <- tm_map(words.corpus, removePunctuation)
```

```
## Warning in tm_map.SimpleCorpus(words.corpus, removePunctuation): transform
ation
## drops documents
```

```r
words.corpus <- tm_map(words.corpus, removeNumbers)
```

```
## Warning in tm_map.SimpleCorpus(words.corpus, removeNumbers): transformatio
n
## drops documents
```

```r
words.corpus <- tm_map(words.corpus, removeWords, stopwords("english"))
```

```
## Warning in tm_map.SimpleCorpus(words.corpus, removeWords, stopwords("engli
sh")):
## transformation drops documents
```

```
inspect(doc)
```

```
## <<TermDocumentMatrix (terms: 332, documents: 51)>>
## Non-/sparse entries: 544/16388
## Sparsity           : 97%
## Maximal term length: 15
## Weighting          : term frequency (tf)
## Sample             :
##          Docs
## Terms     11 15 17 3 31 35 37 39 5 51
##   and      1  2  1 0  4  4  0  1 1  7
##   freedom  0  0  0 0  0  0  1  3 0  1
##   from     1  0  0 0  0  0  0  3 0  2
##   have     1  0  2 0  1  1  0  0 0  0
##   let      0  0  0 0  0  0  0  3 0  1
##   one      0  0  0 0  2  1  1  0 2  0
##   that     0  0  2 0  1  1  2  0 0  1
##   the      7  2  2 3  1  3  4  3 5  2
##   will     0  0  0 0  1  2  4  0 0  2
##   with     0  1  0 0  4  0  3  0 0  0
```

```
m = as.matrix(doc)
wordCounts = rowSums(m)

wordCounts <- sort(wordCounts, decreasing=TRUE)
head(wordCounts)
```

```
##     the     and    will freedom     one    from
##      54      27      16      13      12      12
```

```
str(wordCounts)
```

```
##  Named num [1:332] 54 27 16 13 12 12 12 12 11 10 ...
##  - attr(*, "names")= chr [1:332] "the" "and" "will" "freedom" ...
```

```
total <- sum(wordCounts)
words <- names(wordCounts)
str(words)
```

```
##  chr [1:332] "the" "and" "will" "freedom" "one" "from" "have" "that" "with
"  ...
```

```
#Step 3: Determine how many positive words were in the speech

countP <- match(words,p,nomatch=0)
countP
```

```
##   [1]    0    0    0  766    0    0    0    0    0    0    0    0    0
0    0
##  [16]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [31]  673    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [46]    0    0    0    0  764    0    0    0    0    0  857    0    0
0    0
##  [61]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [76]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [91] 1179    0    0  858  884    0    0    0  181    0    0    0    0
0    0
## [106]    0    0    0    0    0 1046    0    0    0 1189    0    0    0
0    0
## [121]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [136]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [151]    0    0    0    0  874    0    0    0    0    0    0    0 1643
0    0
## [166]    0    0    0    0    0    0    0 1830    0    0  379    0  439
0    0
## [181]    0    0    0    0 1137    0    0    0    0    0    0    0  431
0    0
## [196]    0    0    0    0 1073    0 1145    0    0    0    0    0    0
0    0
## [211]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [226]    0    0    0    0    0    0    0    0    0    0 1217    0    0
0    0
## [241]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [256] 1533    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [271]    0    0  174    0    0    0    0  803    0    0    0    0    0
0    0
## [286]    0 1987    0    0    0    0    0    0 1356    0    0    0    0
0    0
## [301]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [316]    0    0    0    0    0    0    0    0    0    0    0    0    0
0 1792
## [331]    0    0
```

```
matchCounts <- wordCounts[which(countP  !=  0)]
length(matchCounts) #42 positive words
```

```
## [1] 26
```

```
#Step 4: Determine how many negative words were in the speech

countN <- match(words,n,nomatch=0)
countN
```

```
##   [1]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [16]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [31]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [46]    0    0    0    0    0    0    0    0    0    0    0 3858    0
0    0
##  [61]    0    0    0    0    0    0    0    0    0    0 4082    0    0
0    0
##  [76]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
##  [91]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [106]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [121]    0    0    0    0    0    0  760    0    0    0    0 3649    0
0 2739
## [136]    0    0    0 3342    0    0    0 1531    0    0    0    0    0
0    0
## [151]    0  826  990 1665    0 2432    0    0    0    0    0    0    0
0    0
## [166]    0    0    0    0    0    0    0    0    0    0    0  904    0
0    0
## [181]    0    0    0    0    0    0    0 3394    0    0    0    0    0
0 1323
## [196]    0    0    0    0    0    0    0    0    0    0    0    0    0
0 1071
## [211]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [226]    0    0    0    0    0 3857    0    0    0    0    0    0    0
0    0
## [241]    0    0    0    0    0    0    0    0 1395    0    0    0    0
0    0
## [256]    0    0 4632    0  774    0    0    0    0    0    0 3616    0
0    0
## [271]    0    0    0    0  993    0    0    0    0    0    0    0    0
0    0
## [286]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [301]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [316]    0    0    0    0    0    0    0    0    0    0    0    0    0
0    0
## [331]    0    0
```

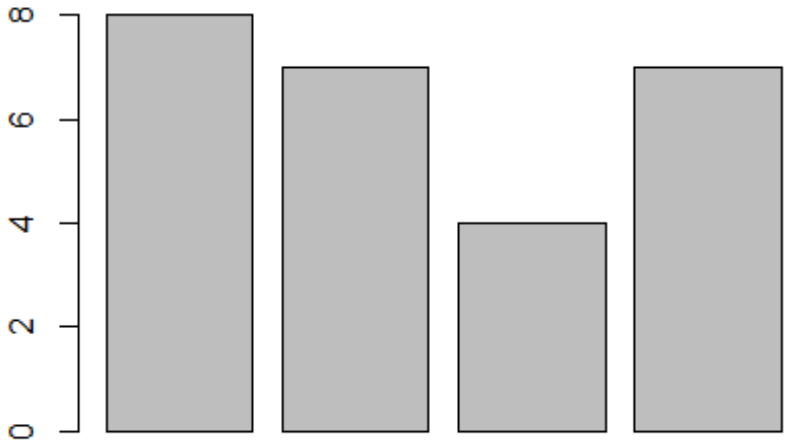
```r
matchCounts <- wordCounts[which(countN  !=  0)]
length(matchCounts)
```

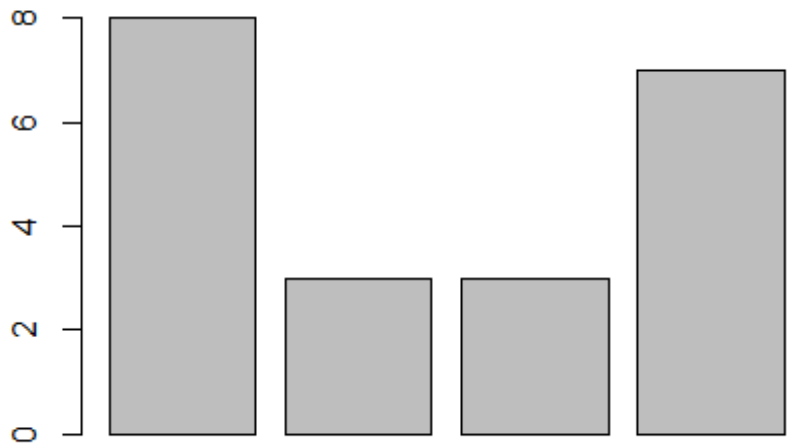
```
## [1] 21
```

```r
#Step 5: Redo the 'positive' and 'negative' calculations for each 25% of the
speech

#split speech into 4 parts
newdataframes = split(words, sample(rep(1:2:3:4, 459)))
```

```
## Warning in 1:2:3: numerical expression has 2 elements: only the first used

## Warning in 1:2:3:4: numerical expression has 3 elements: only the first us
ed

## Warning in split.default(words, sample(rep(1:2:3:4, 459))): data length is
not a
## multiple of split variable
```

```r
#first quarter
matchedp1 = match(newdataframes$`1`,p,nomatch = 0)
matchcountsp1 = wordCounts[which(matchedp1  !=  0)]
p1 = length(matchcountsp1)

#second quarter
matchedp2 = match(newdataframes$`2`,p,nomatch = 0)
matchcountsp2 = wordCounts[which(matchedp2  !=  0)]
p2 = length(matchcountsp2)

#third quarter
matchedp3 = match(newdataframes$`3`,p,nomatch = 0)
matchcountsp3 = wordCounts[which(matchedp3  !=  0)]
p3 = length(matchcountsp3)

#fourth quarter
matchedp4 = match(newdataframes$`4`,p,nomatch = 0)
matchcountsp4 = wordCounts[which(matchedp4  !=  0)]
p4 = length(matchcountsp4)

#barchart for comparing the result
barchartpos = c(p1,p2,p3,p4)
barplot(barchartpos)
```




```
#Barplot shows that the first quarter has got the most positive words

#similarly for the negative words

#first quarter
matchedn1 = match(newdataframes$`1`,n,nomatch = 0)
matchcountsn1 = wordCounts[which(matchedn1  !=  0)]
n1 = length(matchcountsn1)

#second quarter
matchedn2 = match(newdataframes$`2`,n,nomatch = 0)
matchcountsn2 = wordCounts[which(matchedn2  !=  0)]
n2 = length(matchcountsn2)

#third quarter
matchedn3 = match(newdataframes$`3`,n,nomatch = 0)
matchcountsn3 = wordCounts[which(matchedn3  !=  0)]
n3 = length(matchcountsn3)

#fourth quarter
matchedn4 = match(newdataframes$`4`,n,nomatch = 0)
matchcountsn4 = wordCounts[which(matchedn4  !=  0)]
n4 = length(matchcountsn4)

#barchart
```

```
barchartneg = c(n1,n2,n3,n4)
barplot(barchartneg)
```