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Project: (None)

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```
1- corr <- function(directory, threshold = 1) {
2-   ## 'directory' is a character vector of length 1 indicating
3-   ## the location of the csv files
4-
5-   ## 'threshold' is a numeric vector of length 1 indicating the
6-   ## number of completely observed observations (on all
7-   ## variables) required to compute the correlation between
8-   ## nitrate and sulfate; the default is 0
9-
10-   ## Return a numeric vector of correlations
11-
12-   # fix the leading number of zeros issue with file name
13-   #
14-
15-   corResults <- NULL
16-
17-   for(i in 1:332){           # i is the file number
18-     # converts the ID to a 3 character string
19-
20-     idchar <- substr(as.character(1000 + as.numeric(i)), 2,4)
21-
22-     # Determine if the directory was specified and create full path name.
23-     # If not specified, assume "specdata"
24-
25-     path <- getwd()
26-     if (missing(directory)) {
27-       path <- paste0(path, "/", "specdata", "/", idchar, ".csv", sep="")
28-     }
29-     else {
30-       path <- paste0(path, "/", directory, "/", idchar, ".csv", sep="")
31-     }
32-
33-     # read the data file and delete records with NA
34-     #
35-
36-     rawdata <- read.csv(path)
37-
38-     data <- rawdata[complete.cases(rawdata), ]
39-
40-     ok <- sum( complete.cases(rawdata))      # number of good records
41-
42-     nobs <- as.numeric(ok)
43-
44-     if(nobs >= threshold) {
45-       s <- cor(data$nitrate, data$sulfate)
46-       corResults <- append(corResults, s)
47-     }
48-   }
49-
50-   return( corResults )
51- }
```

Environment History

R Console

R version 3.0.3 (2014-03-06) -- "warm Puppy"
Copyright (C) 2014 The R Foundation for Statistical computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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[workspace loaded from ~/R-Projects/.RData]

```
> ls()
[1] "a"           "dadStock"      "dadstockTotal"
[4] "e"           "eTrade"        "eTradeCash"
[7] "eTradeTotal" "filename"      "ING"
[10] "INGcash"     "INGtotal"      "Iris"
[13] "mikeIRA"     "mikeIRAaccount" "mikeIRAcash"
[16] "mikeIRATotal" "my_seq"        "pollutantmean"
[19] "schwabCash"  "schwabJoint"   "schwabJointTotal"
[22] "smpETF"      "smpETFaccount" "smpETFCash"
[25] "smpETFtotal" "smpMF"         "smpMFaccount"
[28] "smpMFCash"   "smpMFTotal"    "SPY"
[31] "SPYdata"     "stocks"        "today"
[34] "Total"      "workingDir"    "x"
[37] "y"
```

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