R Notebook

```
print(R.version.string)
## [1] "R version 4.0.2 (2020-06-22)"
source("pollutantmean.R")
pollutantmean("specdata", "sulfate", 1:10)
## [1] 4.064128
pollutantmean("specdata", "nitrate", 70:72)
## [1] 1.706047
pollutantmean("specdata", "nitrate", 23)
## [1] 1.280833
source("complete.R")
complete("specdata", 1)
##
   id nobs
## 1 1 117
complete("specdata", c(2, 4, 8, 10, 12))
##
     id nobs
## 1 2 1041
## 2 4 474
## 3 8 192
## 4 10 148
## 5 12
complete("specdata", 30:25)
     id nobs
## 1 30 932
## 2 29 711
## 3 28 475
## 4 27 338
## 5 26 586
## 6 25 463
complete("specdata", 3)
     id nobs
##
## 1 3 243
source("corr.R")
cr <- corr("specdata", 150)</pre>
head(cr)
## [1] -0.01895754 -0.14051254 -0.04389737 -0.06815956 -0.12350667 -0.07588814
```

```
summary(cr)
      Min. 1st Qu. Median
                                 Mean 3rd Qu.
                                                  Max.
## -0.21057 -0.04999 0.09463 0.12525 0.26844 0.76313
cr <- corr("specdata", 400)</pre>
head(cr)
## [1] -0.01895754 -0.04389737 -0.06815956 -0.07588814 0.76312884 -0.15782860
summary(cr)
##
      Min. 1st Qu. Median
                                 Mean 3rd Qu.
                                                  Max.
## -0.17623 -0.03109 0.10021 0.13969 0.26849 0.76313
cr <- corr("specdata", 5000)</pre>
summary(cr)
## Length Class
                  Mode
## 0 list list
length(cr)
## [1] 0
cr <- corr("specdata")</pre>
summary(cr)
##
      Min. 1st Qu. Median
                                Mean 3rd Qu.
                                                  Max.
## -1.00000 -0.05282 0.10718 0.13684 0.27831 1.00000
length(cr)
```