

Missing values in R

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> # R version 2.4.1
> rm(list=ls())
> mcars =
read.table("http://www.utstat.toronto.edu/~brunner/appliedf12/data/missingcars.data
")
> mcars
  Cntry lper100k weight length
1    US      19.8  2178   5.92
2  Japan       9.9  1026   4.32
3    US      10.8  1188    NA
4  <NA>      12.5    NA   5.11
5  <NA>       NA  1485   5.03
6    US       NA  1485   5.03
7  Europ     10.4   972   4.37
8    US      13.2  1665   5.44
9  <NA>      17.0  1539   4.88
10   US       9.2  1003    NA
> attach(mcars)

> # Make indicator dummy variables for Cntry as before
> c1 = numeric(n); c1[Cntry=='Europ'] = 1
> c2 = numeric(n); c2[Cntry=='Japan'] = 1
> cbind(Cntry,c1,c2)
  Cntry c1 c2
[1,]    3  0  0
[2,]    2  0  1
[3,]    3  0  0
[4,]   NA  0  0
[5,]   NA  0  0
[6,]    3  0  0
[7,]    1  1  0
[8,]    3  0  0
[9,]   NA  0  0
[10,]   3  0  0
> # NA are U.S.

> Cntry[length>5]
[1] US  <NA> <NA> <NA> US  US  <NA>
Levels: Europ Japan US
> Cntry[length<5]
[1] Japan <NA> Europ <NA> <NA>
Levels: Europ Japan US

>
> weight[lper100k<10] # Okay?
[1] 1026 NA NA 1003
> length(weight[lper100k<10])
[1] 4
> mean(lper100k[Cntry=='US'])
[1] NA
> a = lper100k[Cntry=='US']; a
[1] 19.8 10.8 NA NA NA 13.2 NA 9.2
> mean(a,na.rm=T)
[1] 13.25
> length(a,na.rm=T)
Error: incorrect number of args to 'length'
```