25/01/2021.R

R Roseline Mary

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getwd() #gets the current working directory

setwd(“ “)#sets the working directory

#What is a CSV file?  
#Comma Separated Values.In file, the values are separated by comma  
#the process of storing the data is much easier  
  
#Storing the data in an excel sheet is the most common practice in many   
#companies.   
#In the majority of firms, people are storing data as comma-separated-values  
#(CSV), as the process is easier than creating normal spreadsheets.   
#Later they can use R's built in packages to read and analyze the data.  
  
#Being the most popular and powerful statistical analysis programming language,   
#R offers specific functions to read data into organized data frames from a CSV file  
readfile<-read.csv("LungCapData.csv")  
class(readfile)

## [1] "data.frame"

reafile<-read.csv("auto.txt")  
  
summary(readfile)

## LungCap Age Height Smoke   
## Min. : 0.507 Min. : 3.00 Min. :45.30 Length:725   
## 1st Qu.: 6.150 1st Qu.: 9.00 1st Qu.:59.90 Class :character   
## Median : 8.000 Median :13.00 Median :65.40 Mode :character   
## Mean : 7.863 Mean :12.33 Mean :64.84   
## 3rd Qu.: 9.800 3rd Qu.:15.00 3rd Qu.:70.30   
## Max. :14.675 Max. :19.00 Max. :81.80   
## Gender Caesarean   
## Length:725 Length:725   
## Class :character Class :character   
## Mode :character Mode :character   
##   
##   
##

Maxage<-max(readfile$Age)  
Maxage

## [1] 19

nrow(readfile)

## [1] 725

ncol(readfile)

## [1] 6

str(readfile)

## 'data.frame': 725 obs. of 6 variables:  
## $ LungCap : num 6.47 10.12 9.55 11.12 4.8 ...  
## $ Age : int 6 18 16 14 5 11 8 11 15 11 ...  
## $ Height : num 62.1 74.7 69.7 71 56.9 58.7 63.3 70.4 70.5 59.2 ...  
## $ Smoke : chr "no" "yes" "no" "no" ...  
## $ Gender : chr "male" "female" "female" "male" ...  
## $ Caesarean: chr "no" "no" "yes" "no" ...

#Data frames are like matrices, so you can access individual values   
#using two indices surrounded by square brackets and separated by a   
#comma to indicate which rows and which columns you would like to include  
#in the result  
#dataframe[row],[col]  
R1<-readfile[125,4]  
R1

## [1] "no"

#to access the rows and columns in a dataframe  
R2<-readfile[125:128,2:4]   
R2

## Age Height Smoke  
## 125 19 79.6 no  
## 126 12 67.5 no  
## 127 17 71.8 no  
## 128 19 76.2 no

#to get all the columns, omit the interval  
R3<-readfile[101:250,]  
R3

## LungCap Age Height Smoke Gender Caesarean  
## 101 8.025 13 66.2 yes male no  
## 102 9.225 14 66.9 no male no  
## 103 3.450 13 58.5 no female yes  
## 104 10.725 16 75.6 no female no  
## 105 7.950 16 67.3 no female no  
## 106 3.425 5 51.7 no female no  
## 107 10.875 16 75.5 no male no  
## 108 8.625 12 64.8 no male no  
## 109 6.450 7 63.2 no male no  
## 110 3.100 7 52.1 no male no  
## 111 10.425 15 70.6 no male no  
## 112 12.150 18 76.3 no female no  
## 113 1.850 8 49.8 no female no  
## 114 5.875 3 55.9 no male no  
## 115 9.125 15 73.4 no male no  
## 116 8.975 15 67.5 no female yes  
## 117 3.750 7 50.3 no female no  
## 118 10.275 18 71.0 no male no  
## 119 6.675 8 54.9 no female no  
## 120 11.775 17 76.9 yes male no  
## 121 8.550 16 67.9 no male no  
## 122 6.450 12 61.0 yes male yes  
## 123 13.200 17 78.6 no male yes  
## 124 11.550 16 75.7 no male no  
## 125 12.950 19 79.6 no male yes  
## 126 7.825 12 67.5 no female yes  
## 127 10.550 17 71.8 no male yes  
## 128 11.700 19 76.2 no female yes  
## 129 3.650 12 56.6 no male yes  
## 130 6.650 12 60.0 yes female yes  
## 131 10.425 15 67.2 no male no  
## 132 12.925 17 75.7 no female no  
## 133 7.450 13 61.1 no male no  
## 134 8.600 12 60.1 no female no  
## 135 10.650 16 74.4 no male no  
## 136 4.725 13 65.5 no female no  
## 137 7.550 15 69.3 no female no  
## 138 10.175 15 71.4 no female no  
## 139 6.450 14 61.4 no male no  
## 140 9.475 13 67.4 no male no  
## 141 4.975 6 58.4 no male no  
## 142 9.900 18 70.9 no female no  
## 143 10.200 18 68.6 no female no  
## 144 12.400 18 81.8 no male no  
## 145 6.850 9 65.7 no female yes  
## 146 11.825 17 73.9 no female no  
## 147 8.625 14 66.8 no female yes  
## 148 11.350 14 70.5 no male no  
## 149 8.225 14 64.0 no female no  
## 150 0.507 3 51.6 no female yes  
## 151 5.075 11 61.2 no male no  
## 152 6.450 8 62.7 no male no  
## 153 6.725 9 56.1 no male no  
## 154 4.525 8 55.5 no female no  
## 155 9.275 16 67.2 no female no  
## 156 2.850 7 51.4 no female no  
## 157 9.350 11 71.2 yes male no  
## 158 5.550 5 55.8 no female yes  
## 159 10.350 16 73.5 no male yes  
## 160 6.625 11 62.4 no male yes  
## 161 9.725 16 68.6 no female yes  
## 162 4.900 10 56.8 no female no  
## 163 10.475 12 69.7 no male no  
## 164 10.850 19 70.9 no male no  
## 165 5.150 7 58.4 no female no  
## 166 4.425 8 56.6 no male no  
## 167 7.550 13 66.1 no male no  
## 168 8.350 17 66.2 no male no  
## 169 6.050 9 62.1 no male no  
## 170 4.325 8 54.8 no female yes  
## 171 8.850 15 68.9 no male no  
## 172 4.325 6 56.6 no male no  
## 173 8.775 14 67.7 no female no  
## 174 6.450 10 66.5 yes female no  
## 175 9.175 17 72.5 no female no  
## 176 9.450 15 65.1 yes male no  
## 177 6.700 10 65.4 no male no  
## 178 10.950 16 74.3 no female no  
## 179 9.850 17 72.4 yes female yes  
## 180 9.825 17 65.5 no female yes  
## 181 8.500 13 62.9 no male no  
## 182 11.875 17 78.9 no male yes  
## 183 10.475 15 72.3 no female no  
## 184 9.925 16 75.4 no male no  
## 185 8.500 18 68.2 no female no  
## 186 7.200 10 64.3 no male yes  
## 187 8.375 16 67.3 no female no  
## 188 5.500 8 58.5 no male no  
## 189 7.925 14 65.3 no female yes  
## 190 2.875 4 55.4 no male no  
## 191 10.350 17 71.8 no male no  
## 192 9.325 15 67.6 no female no  
## 193 7.450 10 61.5 no female no  
## 194 8.625 13 60.6 no female no  
## 195 11.225 16 72.8 no male no  
## 196 12.125 17 73.3 no male yes  
## 197 13.025 19 75.5 no male no  
## 198 7.850 11 66.0 no male yes  
## 199 2.550 8 49.9 no female no  
## 200 7.575 12 66.4 no female no  
## 201 9.550 13 68.6 no male no  
## 202 12.225 16 76.2 no female no  
## 203 11.625 15 74.0 no male no  
## 204 10.000 18 73.5 no female no  
## 205 3.900 8 55.5 no female no  
## 206 5.850 5 55.1 no male no  
## 207 5.025 10 60.1 no female no  
## 208 5.950 8 58.6 no female no  
## 209 9.475 13 66.1 no male no  
## 210 6.400 7 60.4 no male no  
## 211 8.225 11 63.6 no male no  
## 212 10.775 15 75.2 no male no  
## 213 6.150 10 62.0 no male no  
## 214 9.400 15 66.4 no female no  
## 215 7.250 8 59.9 no male no  
## 216 5.850 7 58.8 no male no  
## 217 4.125 10 55.5 no female yes  
## 218 10.925 18 77.6 no male no  
## 219 7.350 15 61.9 yes female yes  
## 220 10.475 19 76.0 no male no  
## 221 6.575 14 59.7 yes female yes  
## 222 1.175 3 51.9 no male no  
## 223 2.950 6 47.8 no male yes  
## 224 9.000 12 62.0 no female no  
## 225 8.100 14 61.6 no female no  
## 226 7.275 8 64.7 no male yes  
## 227 11.075 15 69.9 no male no  
## 228 3.100 5 47.4 no female no  
## 229 4.700 3 52.7 no male no  
## 230 5.850 11 60.5 no female no  
## 231 7.925 11 65.1 no male no  
## 232 7.300 13 61.5 no female no  
## 233 9.275 18 67.6 no female no  
## 234 11.125 19 71.5 no male no  
## 235 8.625 15 68.4 no female yes  
## 236 9.825 18 70.8 no male no  
## 237 5.725 8 58.3 no female yes  
## 238 7.925 11 67.1 yes male no  
## 239 9.475 17 64.8 yes female no  
## 240 10.900 14 71.3 no female yes  
## 241 9.675 12 70.9 no male no  
## 242 9.950 14 71.6 no female no  
## 243 6.575 8 59.8 no female no  
## 244 8.600 12 61.6 no male yes  
## 245 9.500 11 63.4 no male no  
## 246 3.825 6 55.1 no female no  
## 247 8.000 9 66.4 no male no  
## 248 7.475 11 60.7 no male yes  
## 249 10.700 18 74.2 yes male no  
## 250 10.125 18 71.0 no female no

#to get a column  
R4<-readfile["Gender"]  
R4

## Gender  
## 1 male  
## 2 female  
## 3 female  
## 4 male  
## 5 male  
## 6 female  
## 7 male  
## 8 male  
## 9 male  
## 10 male  
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## 716 female  
## 717 male  
## 718 female  
## 719 male  
## 720 male  
## 721 female  
## 722 male  
## 723 female  
## 724 female  
## 725 male

R5<-readfile$Gender  
R5

## [1] "male" "female" "female" "male" "male" "female" "male" "male"   
## [9] "male" "male" "male" "male" "male" "female" "male" "male"   
## [17] "male" "male" "female" "female" "male" "female" "male" "male"   
## [25] "female" "male" "female" "male" "female" "female" "female" "male"   
## [33] "male" "male" "male" "male" "male" "male" "female" "male"   
## [41] "female" "female" "female" "male" "male" "female" "male" "female"  
## [49] "male" "male" "male" "male" "male" "male" "male" "male"   
## [57] "male" "male" "female" "male" "female" "male" "female" "female"  
## [65] "male" "female" "female" "female" "female" "male" "female" "male"   
## [73] "female" "female" "female" "female" "male" "female" "female" "male"   
## [81] "female" "male" "male" "female" "female" "female" "male" "female"  
## [89] "female" "male" "male" "male" "male" "female" "female" "female"  
## [97] "male" "male" "male" "male" "male" "male" "female" "female"  
## [105] "female" "female" "male" "male" "male" "male" "male" "female"  
## [113] "female" "male" "male" "female" "female" "male" "female" "male"   
## [121] "male" "male" "male" "male" "male" "female" "male" "female"  
## [129] "male" "female" "male" "female" "male" "female" "male" "female"  
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## [721] "female" "male" "female" "female" "male"

#to filter   
age1<-readfile[readfile$Age >13 ,]  
age1

## LungCap Age Height Smoke Gender Caesarean  
## 2 10.125 18 74.7 yes female no  
## 3 9.550 16 69.7 no female yes  
## 4 11.125 14 71.0 no male no  
## 9 8.875 15 70.5 no male no  
## 11 11.500 19 76.4 no male yes  
## 12 10.925 17 71.7 no male no  
## 17 7.875 15 59.2 no male no  
## 20 9.525 14 70.6 no female no  
## 23 10.025 16 72.4 no male no  
## 30 10.475 18 72.0 yes female no  
## 40 11.325 17 77.7 no male no  
## 41 8.225 14 65.4 no female no  
## 42 10.725 17 72.5 no female yes  
## 49 12.950 17 74.9 no male no  
## 51 9.625 15 66.4 no male no  
## 52 12.425 15 74.1 no male no  
## 55 12.225 18 79.6 no male no  
## 58 11.400 19 79.1 no male no  
## 62 9.200 14 68.2 no male no  
## 71 8.500 14 61.4 no female yes  
## 77 7.500 14 66.6 no male no  
## 79 10.050 17 70.4 no female no  
## 82 11.900 16 69.3 no male no  
## 83 12.050 17 72.2 no male no  
## 84 11.575 19 78.2 no female no  
## 85 6.200 14 61.1 no female no  
## 87 13.875 19 78.4 no male yes  
## 89 7.475 15 63.0 yes female no  
## 90 11.575 19 75.5 no male no  
## 92 9.200 14 69.4 no male no  
## 94 9.650 14 65.2 no female no  
## 95 11.750 19 78.0 yes female yes  
## 96 10.825 18 75.7 no female no  
## 97 7.550 16 71.1 yes male no  
## 99 10.675 16 74.9 no male no  
## 102 9.225 14 66.9 no male no  
## 104 10.725 16 75.6 no female no  
## 105 7.950 16 67.3 no female no  
## 107 10.875 16 75.5 no male no  
## 111 10.425 15 70.6 no male no  
## 112 12.150 18 76.3 no female no  
## 115 9.125 15 73.4 no male no  
## 116 8.975 15 67.5 no female yes  
## 118 10.275 18 71.0 no male no  
## 120 11.775 17 76.9 yes male no  
## 121 8.550 16 67.9 no male no  
## 123 13.200 17 78.6 no male yes  
## 124 11.550 16 75.7 no male no  
## 125 12.950 19 79.6 no male yes  
## 127 10.550 17 71.8 no male yes  
## 128 11.700 19 76.2 no female yes  
## 131 10.425 15 67.2 no male no  
## 132 12.925 17 75.7 no female no  
## 135 10.650 16 74.4 no male no  
## 137 7.550 15 69.3 no female no  
## 138 10.175 15 71.4 no female no  
## 139 6.450 14 61.4 no male no  
## 142 9.900 18 70.9 no female no  
## 143 10.200 18 68.6 no female no  
## 144 12.400 18 81.8 no male no  
## 146 11.825 17 73.9 no female no  
## 147 8.625 14 66.8 no female yes  
## 148 11.350 14 70.5 no male no  
## 149 8.225 14 64.0 no female no  
## 155 9.275 16 67.2 no female no  
## 159 10.350 16 73.5 no male yes  
## 161 9.725 16 68.6 no female yes  
## 164 10.850 19 70.9 no male no  
## 168 8.350 17 66.2 no male no  
## 171 8.850 15 68.9 no male no  
## 173 8.775 14 67.7 no female no  
## 175 9.175 17 72.5 no female no  
## 176 9.450 15 65.1 yes male no  
## 178 10.950 16 74.3 no female no  
## 179 9.850 17 72.4 yes female yes  
## 180 9.825 17 65.5 no female yes  
## 182 11.875 17 78.9 no male yes  
## 183 10.475 15 72.3 no female no  
## 184 9.925 16 75.4 no male no  
## 185 8.500 18 68.2 no female no  
## 187 8.375 16 67.3 no female no  
## 189 7.925 14 65.3 no female yes  
## 191 10.350 17 71.8 no male no  
## 192 9.325 15 67.6 no female no  
## 195 11.225 16 72.8 no male no  
## 196 12.125 17 73.3 no male yes  
## 197 13.025 19 75.5 no male no  
## 202 12.225 16 76.2 no female no  
## 203 11.625 15 74.0 no male no  
## 204 10.000 18 73.5 no female no  
## 212 10.775 15 75.2 no male no  
## 214 9.400 15 66.4 no female no  
## 218 10.925 18 77.6 no male no  
## 219 7.350 15 61.9 yes female yes  
## 220 10.475 19 76.0 no male no  
## 221 6.575 14 59.7 yes female yes  
## 225 8.100 14 61.6 no female no  
## 227 11.075 15 69.9 no male no  
## 233 9.275 18 67.6 no female no  
## 234 11.125 19 71.5 no male no  
## 235 8.625 15 68.4 no female yes  
## 236 9.825 18 70.8 no male no  
## 239 9.475 17 64.8 yes female no  
## 240 10.900 14 71.3 no female yes  
## 242 9.950 14 71.6 no female no  
## 249 10.700 18 74.2 yes male no  
## 250 10.125 18 71.0 no female no  
## 251 11.225 19 74.8 no female no  
## 253 12.500 18 80.3 no male no  
## 257 11.050 18 72.6 yes female no  
## 261 8.850 14 65.1 no female no  
## 262 11.875 14 71.2 no male no  
## 265 10.175 19 69.2 no male yes  
## 267 8.975 17 70.9 no male yes  
## 272 8.800 14 70.5 no female no  
## 273 8.700 14 73.1 no male yes  
## 275 9.375 17 69.7 no male no  
## 281 8.500 17 72.5 yes male no  
## 282 10.975 14 71.2 no male no  
## 283 9.700 15 64.8 no female no  
## 290 9.550 18 70.8 yes female no  
## 292 10.450 18 72.9 yes male yes  
## 294 11.400 15 74.6 no male no  
## 296 12.200 19 72.2 no female no  
## 301 8.200 18 69.0 yes female yes  
## 304 10.525 18 71.9 no female no  
## 307 8.475 15 69.3 yes male no  
## 308 10.925 14 69.4 no female no  
## 310 8.350 19 68.2 no female no  
## 313 8.775 14 67.5 no female no  
## 314 13.100 19 76.6 no male no  
## 320 10.975 16 79.3 no male yes  
## 323 8.900 15 64.9 no female no  
## 326 11.075 19 70.4 no female no  
## 327 8.325 15 69.0 no male no  
## 329 9.625 19 73.9 no female no  
## 334 10.750 14 70.4 no male no  
## 335 7.375 14 69.1 no female yes  
## 339 9.800 15 73.5 no male yes  
## 340 10.250 18 72.5 no female no  
## 341 7.425 15 62.6 no female no  
## 346 10.100 17 74.2 no female no  
## 350 8.475 14 62.2 no female yes  
## 352 11.675 16 72.7 no male no  
## 353 10.600 17 74.4 no male no  
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## 362 10.050 15 70.2 no male no  
## 363 10.200 18 73.5 yes female yes  
## 368 8.975 16 69.1 no female yes  
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## 370 11.650 18 73.3 no male no  
## 371 11.075 16 68.7 no female yes  
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## 375 14.375 18 80.8 no male no  
## 383 8.775 15 64.7 yes female no  
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## 386 10.600 18 70.0 no female yes  
## 392 11.325 16 71.2 no female no  
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## 398 10.500 16 70.1 no female no  
## 403 8.425 15 69.1 no female yes  
## 408 12.150 15 74.0 no male no  
## 409 10.100 15 74.5 no male no  
## 410 11.500 18 69.9 no female no  
## 413 9.275 18 70.1 no female no  
## 414 11.000 19 75.8 no female yes  
## 418 9.100 14 68.4 yes male no  
## 419 9.875 15 71.6 yes male no  
## 422 11.225 17 76.8 no male no  
## 428 12.275 19 75.9 no male yes  
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## 430 9.450 16 68.0 no female no  
## 435 10.450 14 69.9 yes male no  
## 436 11.300 15 73.7 no male no  
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## 442 9.750 19 71.5 no female yes  
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## 475 9.050 16 68.1 yes female no  
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## 490 6.725 15 63.3 no male yes  
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## 495 14.675 19 76.5 no male no  
## 496 9.000 14 66.6 no female no  
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## 539 12.325 15 73.8 no male yes  
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## 611 9.750 16 73.7 no male yes  
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## 659 6.500 14 61.7 yes female no  
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## 677 13.325 18 76.9 yes male no  
## 678 9.200 14 68.7 no female yes  
## 679 8.125 14 66.6 yes female yes  
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## 684 8.525 15 65.3 yes female no  
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## 686 8.800 16 64.3 no female no  
## 687 6.150 16 66.0 no female yes  
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