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#Odlin Montila  
# Data Classes - Lab  
# 1/30/18  
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## In this lab you can use the interactive console to explore  
## but please record your commands here.  
## Remember anything you type here can be "sent" to the console with  
## Cmd-Enter (OS-X) or Cntr-Enter (Windows/Linux).
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# 1. Load in the `CO2` dataset (which is included in R like the `iris`  
dataset  
x<-CO2  
x  
# 2. What class is `CO2`?  
class(x)  
# 3. How many observations (rows) and variables (columns) are in the `CO2`  
dataset?  
NROW(x)=84  
NCOL(x)
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# 4. How many different "plants" are in the data? (hint: `length` and  
`unique`)  
length(plants)
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# 5. How many different "types" are in the data?  
CO2(type)
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# 6. Tabulate "type" and "treatment" - what are the dimensions of the  
resulting table?
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# hint: you can assign tables to variables  
table(CO2$Type, CO2$Treatment)
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# 7. Create a new `data.frame` named `CO2.even` that contains the even  
rows of `CO2`
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# hint: subsetting and `seq` (note the `by` argument)
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# 8. How many observations are in `CO2.even`?
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# 9. What are the sums of the a) concentrations and b) uptake values in  
the `CO2.even` dataset?
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# And what are their means?
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