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title: "Stat123 lab2"
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output:
 html document: default
  pdf document: default
question#1. Download the ClinicalTrial dataset posted under Lab Content in Brightspace
(under Lab 2)
#and save it to whatever file you are using for this course.
#(a)Read the ClinicalTrial file into R and call it BasicCharacteristics
BasicCharacteristics <- read.csv("/Users/itagakikouki/stat123/ClinicalTrial.csv")
BasicCharacteristics
#(b) Print the type of BasicCharacteristics using class() function
class(BasicCharacteristics)
#(c) How many rows and columns are there in the BasicCharacteristics.
dim(BasicCharacteristics)
#nrow(),ncol() is also possible
#(d) Add a new row (127_1271001, Female, >50, Current_Smoker, 90) to the
BasicCharacteristics.
BasicCharacteristics <- rbind(BasicCharacteristics, c ("127 1271001", "Female", ">50",
"Current_Smoker", 90))
BasicCharacteristics
#2. Create a matrix called PatientsMatrix which contains the WEIGHT column of
BasicCharacteristics.
PatientsMatrix<- as.matrix(BasicCharacteristics)</pre>
PatientsMatrix
PatientsMatrix[3,1]
#(a) Re-name the column of PatientsMatrix to WEIGHT.
#colnames(PatientsMatrix)<- "WEIGHT"</pre>
PatientsMatrix
#(b) Determine the weight over 80 in the PatientsMatrix.
PatientsMatrix[PatientsMatrix[, "WEIGHT"]> 80]
#PatientsMatrix[, "WEIGHT"]> 80
#(c) Determine the average weight in the PatientsMatrix
#Since as.matrix change the type of the patientsMatrix, we need to change it again
mean(as.numeric(PatientsMatrix[ ,'WEIGHT']))
. . .
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#3. Create a list called PatientsList which contains the column AGE of the
BasicCharacteristics.
PatientsList<-as.list(BasicCharacteristics$AGE)</pre>
#(a) Print the lenght of PatientsList.
length(PatientsList)
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#(b) Determine the number of patients with age over 50 using the lenght() function
test<- PatientsList == ">50"
test
length(test[test == TRUE])
```