Hw3

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library(tidyverse)  
library(arsenal)

SC = read\_csv("./data/SurvCancer.csv") %>%   
 janitor::clean\_names() %>%   
 group\_by(organ) %>%   
 summarize(  
 mean\_survival = mean(survival)  
 )   
  
mycontrols <- tableby.control(test=T, total=F, numeric.simplify = TRUE, cat.simplify = T,  
 numeric.test="kwt", cat.test="chisq",  
 numeric.stats=c( "meansd","medianq1q3"),  
 cat.stats=c("countpct"),  
 stats.labels=list(N='Count', meansd='Mean', countpct = "Count", medianq1q3 = "Median[IQR]"),  
 digits = 2,  
 digits.count = 2,  
 digits.p = 3  
 )  
  
tab1<-tableby(organ ~ mean\_survival , control = mycontrols, data = SC)  
  
summary(tab1, text = TRUE)  
##   
##   
## | | Breast (N=1) | Bronchus (N=1) | Colon (N=1) | Ovary (N=1) | Stomach (N=1) | p value|  
## |:--------------|:--------------------------:|:-----------------------:|:-----------------------:|:-----------------------:|:-----------------------:|-------:|  
## |mean\_survival | | | | | | 0.406|  
## |- Mean | 1395.91 (NA) | 211.59 (NA) | 457.41 (NA) | 884.33 (NA) | 286.00 (NA) | |  
## |- Median[IQR] | 1395.91 (1395.91, 1395.91) | 211.59 (211.59, 211.59) | 457.41 (457.41, 457.41) | 884.33 (884.33, 884.33) | 286.00 (286.00, 286.00) | |