data analysis code

```
#obligatory part

install.packages("medicaldata")
library("medicaldata")
#load data
scurvy <- medicaldata::scurvy
ls()

#get information about the shape and column names
head(scurvy)
dim(scurvy)

#create a table for treatment and duty fitness
treatment <-scurvy$treatment
table(treatment)

duty <- scurvy$fit_for_duty_d6
table(duty)

#filter vector based on the knee weakness and count result
weak <- scurvy$weakness_of_the_knees_d6
result <- length(which(weak != "0_none"))
result

#filter data based on the gum_rot and lassitude
which(scurvy$gum_rot_d6=="1_mild")
which(scurvy$lassitude_d6=="3_severe")
which(scurvy$gum_rot_d6=="1_mild" & scurvy$lassitude_d6=="3_severe")

#create an empty vector to store modified variables
weak_knees <- c()

for (i in weak) {
  #select the first character and convert it to an integer
  k<- strtoi(substr(i,1,1))
  weak_knees <- append(weak_knees, k)
}

#Find the quartiles (10th, 50th, and 90th percentiles)
quantile(weak_knees, probs = c(.1, .5, .9))


#added by student
which(scurvy$gum_rot_d6=="2_moderate")
which(scurvy$gum_rot_d6=="2_moderate")
which(scurvy$gum_rot_d6=="3_severe")
length(which(scurvy$gum_rot_d6=="3_severe"))
```

```
which(scurvy$gum_rot_d6=="0_none")
length(which(scurvy$lassitude_d6=="3_severe"))
length(which(scurvy$lassitude_d6=="0_none"))
which(scurvy$lassitude_d6=="3_severe")
which(scurvy$lassitude_d6=="0_none")
which(weak == "0_none")
which(scurvy$skin_sores_d6 == "0_none")
which(scurvy$skin_sores_d6 == "1_mild")
which(scurvy$fit_for_duty == "1_yes")
treatment[10]
which(scurvy$treatment == "citrus")
scurvy$lassitude_d6[9]
which(scurvy$gum_rot_d6=="1_mild")
which(weak == "1_mild")
which(scurvy$gum_rot_d6=="1_mild")
which(scurvy$lassitude_d6=="1_mild")
```