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Question 1
 Fibonacci <- function(n){x=numeric(n)
   x[1] = 1
   x[2] = 1
   for (i in 3:n)
   x[i] = x[i-1] + x[i-2]
   return(x)}
Question 3
a.
   dataset <- read.csv("PersonenSchaden.csv", header = TRUE)</pre>
b.
   summary(dataset$total)
       var(dataset$total)
       sd(dataset$total)
C.
hist(dataset$total, xlab = "dollar values of claims",main = "Histogram of dollar values
of claims", breaks = 200)
d.
 hist(dataset$finmonth-dataset$accmonth,xlab = "Settlement delay", main =
"Histogram of settlement delay")
e.
 hist1<- hist(dataset$legrep)
 hist1$density=hist1$counts/sum(hist1$counts)
 plot(hist1, xlab = "legal representation", ylab = "proportion", main = "Histogram of
the legal representation", freq = FALSE)
f.
 totalinjury <- rbind(dataset$inj1, dataset$inj2, dataset$inj3, dataset$inj4,
dataset$inj5)
 hist2<- hist(totalinjury)
 hist2$density=hist2$counts/sum(hist2$counts)
 plot(hist2, xlab = "injury code",ylab = "proportion", main = "Histogram of injury
code", freq = FALSE)
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h.
logclaims<- log(dataset$total)
hist(logclaims, xlab = "log dollar values of claims", main = "Histogram of log dollar values of claims")

i.
plot(dataset$op_time, dataset$total, xlab = "operational time",ylab = "claim size", main = "Claim size vs Operational time")

plot(dataset$op_time, dataset$total, xlab = "operational time",ylab = "log claim size", main = "Log claim size vs Operational time",log = "y")

k.
colour <- factor(dataset%legrep)
plot(dataset$op_time,dataset$total, xlab = "operational time", ylab = "log claim size", main = "Log claim size vs Operational time", col=colour,log = "y")
```