3A Assignment Solution

```
# Assignment 3 A

# get the path for the working directory
getwd()
#set the working directory by assigning the path for the file
setwd("C:/Users/Neha/Desktop")
# Installing the package "lubridate"
install.packages("lubridate")
library(lubridate)
#load the file
Acquisition<-read.csv("Acquisitions.csv", header = TRUE,  sep = ",", quote = "\"")

# Problem 2

# creating the function leastInvInterval
leastInvInterval<-function(leastInvInterval){
# to set the format for the dates
  dates<-as.Date(Acquisition$Date, format="%m/%d/%Y")
# calculating intervals between the dates
CompareIntervals<-c(diff(dates))
#finding the least intervals
leastDuration<-min(CompareIntervals, na.rm= F)
# to get and print the smallest duration
cat("The smallest duration is")
cat("\n")
print(leastDuration)
}
leastInvInterval()
```

Stratergy:

For the first problem to load the datafile into R we

- *get the path for the working directory*
- *set the working directory by assigning the path for the file*
- *Installing the package "lubridate"*
- *load the file*

Problem 2

- *creating the function leastInvInterval*
- *to set the format for the dates*
- *calculating intervals between the dates*
- *finding the least intervals*
- *to get and print the smallest duration*

3A Assignment Solution

output:

- we find the smallest duration between dates

```
> leastInvInterval()
The smallest duration is
[1] 38
```