*# Assignment 3 A*

*# get the path for the working directory*

[**getwd**](http://inside-r.org/r-doc/base/getwd)()

*#set the working directory by assigning the path for the file*

[**setwd**](http://inside-r.org/r-doc/base/setwd)("C:/Users/Neha/Desktop")

*# Installing the package "lubridate"*

[**install.packages**](http://inside-r.org/r-doc/utils/install.packages)("lubridate")

[**library**](http://inside-r.org/r-doc/base/library)(lubridate)

*#load the file*

Acquisition<-[**read.csv**](http://inside-r.org/r-doc/utils/read.csv)("Acquisitions.csv", header = **TRUE**, sep = ",", [**quote**](http://inside-r.org/r-doc/base/quote) = "**\"**")

*# Problem 2*

*# creating the function leastInvInterval*

leastInvInterval<-[**function**](http://inside-r.org/r-doc/base/function)(leastInvInterval){

*# to set the format for the dates*

dates<-**[as.Date](http://inside-r.org/r-doc/base/as.Date)**(Acquisition$Date, [**format**](http://inside-r.org/r-doc/base/format)="%m/%d/%Y")

*# calculating intervals between the dates*

CompareIntervals<-[**c**](http://inside-r.org/r-doc/base/c)([**diff**](http://inside-r.org/r-doc/base/diff)(dates))

*#finding the least intervals*

leastDuration<-[**min**](http://inside-r.org/r-doc/base/min)(CompareIntervals, na.rm= F)

*# to get and print the smallest duration*

[**cat**](http://inside-r.org/r-doc/base/cat)("The smallest duration is")

[**cat**](http://inside-r.org/r-doc/base/cat)("**\n**")

[**print**](http://inside-r.org/r-doc/base/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*

**output:**

* we find the smallest duration between dates

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