```
#2020/11/20

#1(a)
a <- read.csv("data/Calculus-score-A.csv",skip=2)
names(a) <- c("座號","學號","姓名","性別
","quiz(1)","quiz(2)","quiz(3)","quiz(4)","TA","mid","fin","att")
head(a,5)
tail(a,5)

install.packages()
library(readxl)
b1 <- read_excel("data/Calculus-score-B.xls",skip=2)
names(b1) <- c("座號","學號","姓名","性別
","quiz(1)","quiz(2)","quiz(3)","quiz(4)","TA","mid","fin","att")
head(b1,5)
tail(b1,5)

#1(b)
options("max.print"=10000)
a$"class" <- "A"
b1$"class" <- "B"
score <- rbind(a,b1)
class(score)

#1(c)
score$"學期成績" <- (0.07*score$"quiz(1)" + 0.07*score$"quiz(2)" +
0.08*score$"quiz(3)" + 0.08*score$"quiz(4)" +
0.15*score$"TA"+0.25*score$"mid"+0.3*score$"fin"+score$"att")
score$"學期成績"[is.na(score$"學期成績")] <- 0
score$"學期成績"[100<(score$"學期成績")] <- 100

#1(d)

#1(e)
d <-(a$"quiz(1)" + a$"quiz(2)" + a$"quiz(3)" + a$"quiz(4)" + a$"TA" + a$"mid" +
a$"fin")
mean(d, na.rm=TRUE)
e <-(b1$"quiz(1)" + b1$"quiz(2)" + b1$"quiz(3)" + b1$"quiz(4)" + b1$"TA" + b1$"mid"
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+ b1$"fin")
mean(e,na.rm=TRUE)

#1(f)
a$"學期成績" <-(0.07*a$"quiz(1)" + 0.07*a$"quiz(2)" + 0.08*a$"quiz(3)" +
0.08*a$"quiz(4)" + 0.15*a$"TA"+0.25*a$"mid"+0.3*a$"fin"+a$"att")

#2(a)
set.seed(123456)
Letters.code <- sample(LETTERS[1:5], 20, replace=T)
Letters.code1 = Numbers.code
Numbers.code = ifelse(Letters.code%in%c("A","E"),1,ifelse(Letters.code =="c",2,3))
Numbers.code
```