###2020/10/23(五), 109學年第一學期 資料科學應用 R作業(1)

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#ex1.7 (a)

MyLetter <- 5:1

rep(LETTERS[1:5],MyLetter)

#ex1.7(b)

x <- c("b", "d", "f", "h", "j", "l", "n", "p", "r", "t", "v", "x", "z", "a", "c", "e", "g",

"i", "k", "m", "o", "q", "s", "u", "w", "y")

x[seq(from=1,to=26,by=1)]

#rm(list=ls())

##ex1.7(c)

set.seed(12345)

##d=-n/n+1

seq(from=1,to=-1/100,by=-1/2)

##ex1.7(d)

c <- month.abb

c

c[seq(from=1,to=12,by=2)]

##ex1.23(a)

math.score <- c(43,94,20,8,46,72,93,8,28,33,79,60,93,52,8)

##ex1.23(b)

length(math.score)

##ex1.23(c)

rm(list=ls())

##ex1.23(d)

math.score <- c(43,94,20,8,46,72,93,8,28,33,79,60,93,52,8)

math.score >= 60

id <- math.score >=60

math.score[id]

math.score[math.score >=60]

mean(math.score[math.score >=60])

#ex1.37 (a)

age <- c(54,64,75,21,66,49,25,72,50,72)

gender <- c("女","男","男","女","女","男","男","女","男","女")

index <- c(86,30,NA,43,35,42,31,7,29,80)

sat <-c ( "滿意","非常滿意","非常不滿意","非常滿意","普通","非常不滿意","普通","滿意","普通","非常滿意")

sort(sat)

rank(sat)

#ex1.37 (b)

sort(sat)

#ex1.37(c)

age >= 40

gender.m <- factor(gender)

gender.m[age>=40]

index.m <- factor(index)

index.m

index.m [gender.m [age >= 40]]