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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#(請依照規定)貼上執行程式碼及執行結果。

詳見: R 程式作業繳交方式

http://www.hmwu.idv.tw/web/teaching/doc/R-how-homework.pdf

## > # ex1.7

- (a) > rep(LETTERS[1:5], 5:1)
  - [1] "A" "A" "A" "A" "A" "B" "B" "B" "B" "C" "C" "C" "C" "D" "D" "E"

## > # ex1.23

(a) > R < -c(43, 94, 20, 8, 46, 72, 93, 8, 28, 33, 79, 60, 93, 52, 8)

> R

- [1] 43 94 20 8 46 72 93 8 28 33 79 60 93 52 8
- > math.score <- options()
- > math.score
- (b) > length(R)
- [1] 15
- (c) > a < c(94,8,72,8,33,60,52)

> a

- [1] 94 8 72 8 33 60 52
- > mean(a)
- [1] 46.71429
- (d) > w < -R > = 60

> w

- [1] FALSE TRUE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE TRUE TRUE
- [13] TRUE FALSE FALSE

座號:2,6,7,11,12,13、6位及格

## > # ex1.37

(a) > R <- c(54,64,75,21,66,49,25,72,50,72,"女","男","男","女","女","女","男","女","好","好","好","好","好","好","我意","非常满意","非常满意","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","普通","非常满意","

> R

[1] "54"	"64"	"75"	"21"	"66"
[6] "49"	"25"	"72"	"50"	"72"
[11] "女"	"男"	"男"	"女"	"女"
[16] "男"	"男"	"女"	"男"	"女"
[21] "86"	"30"	NA	"43"	"35"
[26] "42"	"31"	"7"	"29"	"80"
[31] "滿意"	"非常滿意"	"非常不	滿意""非常滿意"	"普通"

- [36] "非常不滿意" "普通" "非常滿意" "普通" "非常滿意"
- > X <- 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")
- > X.factor <- factor(X)
- > X.factor
- [1] 滿意 非常滿意 非常不滿意 非常滿意 普通 非常不滿意
- [7] 普通 滿意 普通 非常滿意

Levels: 非常不滿意 非常滿意 普通 滿意

(b)5 位

(c) > f < -c(86,30,35,42,7,29,80)

> f

[1] 86 30 35 42 7 29 80

> mean(f)

[1] 44.14286