

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" "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) > s <- c(94,8,72,8,33,60,52)

> s

[1] 94 8 72 8 33 60 52

> mean(s)

[1] 46.71429

(d) > X <- R >= 60

> X

[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","男","男","女","男","女",86,30,NA,43,35,42,31,7,29,80,"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")

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> 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"      "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) > d <- c(86,30,35,42,7,29,80)
> d
[1] 86 30 35 42 7 29 80
> mean(d)
[1] 44.14286

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