2020/12/25(五), 109 學年第一學期 資料科學應用 R 作業(7)

學號:A106260093 姓名: 王緯華 #(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 > #2.30(a) > first5.records <- read.table("data/answer.txt", header = TRUE, sep="\t") > head(first5.records, 5) Student V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 1 s1 C D D A D A B C C В 2 s2 B D B D D A C D B В 3 s3 B A A B D A C B C В s4 B D B A B C C D C 4 В s5 B D D D A C C D A В > #first5.records > #str(first5.records) > > #2.30(b) > correct <- c("B", "D", "B", "D", "D", "A", "C", "D", "C", "B") > student.ans <- c("A", "D", "B", "D", "B", "A", "B", "D", "C", "B") > #factor(correct) > #factor(student.ans) > correct.item <- which(factor(correct) == factor(student.ans)) > correct.item [1] 2 3 4 6 8 9 10 > n.correct <- length(correct.item) * 10 > n.correct [1] 70 > #2.30(c) > #names(first5.records)

> #first5.records[,c("V1","V2","V3","V4","V5","V6","V7","V8","V9","V10")]

> n.correct.f <- function(x){

```
length(which(factor(correct) == x))*10
+ }
> #correct.first5.records <-
apply(first5.records[,c("V1","V2","V3","V4","V5","V6","V7","V8","V9","V10")],
1,n.correct.f)
> #correct.first5.records
> #str(correct.first5.records)
> score.table <-
table(apply(first5.records[,c("V1","V2","V3","V4","V5","V6","V7","V8","V9","V10")],
1, n.correct.f))
> score.table
  0 10 20 30 40 50 60 70 80 90 100
  3 10 9 11 19 23 28 40 30 12
                                              7
>
>
> #2.30(d)
>
> #2.30(e)
>
> #2.30(f)
>
>
> #2.51(a)
> c("AAABBBCCCC")
[1] "AAABBBCCCC"
>
> #2.51(b)
>
> #2.52
> #5.2(a)
>
> #5.2(b)
>
```