

2020/11/20(五), 109 學年第一學期 資料科學應用 R 小考(1)

學號: A107260010 姓名: 陳舒汶

(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>

> #2020/11/20(五), 109 學年第一學期 資料科學應用 R 小考(1)

>

> # 1(a)

>

```
> my.data <- read.csv("Calculus-score-A.csv")
```

```
> xlsx_file <- "Calculus-score-B.xls"
```

```
> excel_sheets(xlsx_file)
```

[1] "工作表 1"

```
> mydata <- read_excel(xlsx_file, sheet = "工作表 1", na = "NA", skip = 1)
```

New names:

$$* \rightarrow \dots 1$$

* ``-> ...2

* ``->...3

* ``-> ...4

```
> as.data.frame(head(mydata, 5))
```

...1	...2	...3	...4	quiz(1)	quiz(2)	quiz(3)	quiz(4)	TA MidtermExam
FinalExam	Attendance							

1 座號	學號	姓名	性別	0.07	0.07	0.08	0.08	0.15
0.25	0.3	Times						

2	1404550465	史文羽	男	60.00	81.00	100.00	97.00	100.00
---	------------	-----	---	-------	-------	--------	-------	--------

90.00	83.0	6
-------	------	---

3	2 404685071	鄭樺妤	男	80.00	100.00	100.00	92.00	100.00
---	-------------	-----	---	-------	--------	--------	-------	--------

92.00	97.0	2
-------	------	---

4	3 404685084	張敬安	男	10.00	40.00	62.00	93.00	100.00
---	-------------	-----	---	-------	-------	-------	-------	--------

65.00	84.0	9
-------	------	---

5	4 404685099	何筑亦	女	15.00	25.00	40.00	13.00	93.30
---	-------------	-----	---	-------	-------	-------	-------	-------

36.00	5.0	9
-------	-----	---

```
> as.data.frame(tail(mydata, 5))
```

...1 ...2 ...3 ...4 quiz(1) quiz(2) quiz(3) quiz(4) TA MidtermExam

FinalExam Attendance

1	51 404685407	鄭鈺尤	女	80	85	100	85 100
89	95	9					
2	52 404685905	楊宜路	男	48	35	48	98 100
50	62	9					
3	53 404685013	張渝好	男	0	38	60	40 87
49	25	1					
4	54 404685119	廖暄安	男	50	70	20	85 100
54	69	4					
5	55 499555916	楊毅亦	女	5	35	45	55 87
58	60	3					

>

> # 1(b)

>

> # 1(c)

> # 1(d)

> # 1(e)

> # 1(f)

> # 1(g)

>

> #2(a)

> set.seed <- c(123456)

> Letters.code <- c(sample(LETTERS[1:5], 20, replace=T))

>

> set.seed <- c("A", "B", "C", "D", "E")

> Letters.code <- c("1", "3", "2", "3", "1")

>

> levels(set.seed)

NULL

> sat.f <- factor(set.seed)

> levels(sat.f)

[1] "A" "B" "C" "D" "E"

> levels(sat.f) <- c("1", "3", "2", "3", "1")

> sat.f

[1] 1 3 2 3 1

Levels: 1 3 2

>

> #2(b)

>

```
> Numbers.code
```

```
錯誤: 找不到物件 'Numbers.code'
```

```
> Letters.code
```

```
[1] "1" "3" "2" "3" "1"
```

```
> data.frame (Numbers.code, Letters.code)
```

```
Error in data.frame(Numbers.code, Letters.code) :
```

```
找不到物件 'Numbers.code'
```

```
>
```