# 2020/12/11(五), 109學年第一學期 資料科學應用 R期中考

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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

> study <- function(x){

+ Tuition <- 400X+600Y

錯誤: unexpected symbol in:

"study <- function(x){

Tuition <- 400X"

>

> }

錯誤: 未預期的 '}' in "}"

> data.frame()

data frame with 0 columns and 0 rows

>

>

> # ex2(a)

> library(readxl)

> Score <- read\_excel("data/Score-109.xlsx", skip=2)

> head(Score, 5)

# A tibble: 5 x 3

No.1 `72` `62`

<chr> <chr> <chr>

1 No.2 88 97

2 No.3 76 66

3 No.4 89 51

4 No.5 46 15

5 No.6 16 87

> tail(Score, 5)

# A tibble: 5 x 3

No.1 `72` `62`

<chr> <chr> <chr>

1 No.71 69 96

2 No.72 51 100

3 No.73 37 50

4 No.74 33 92

5 No.75 4 37

> str(Score)

tibble [74 x 3] (S3: tbl\_df/tbl/data.frame)

$ No.1: chr [1:74] "No.2" "No.3" "No.4" "No.5" ...

$ 72 : chr [1:74] "88" "76" "89" "46" ...

$ 62 : chr [1:74] "97" "66" "51" "15" ...

>

> # ex2(b)

>

> Score <- sample(0:75, NA=0)& any(x < 60)

錯誤: 未預期的 '=' in "Score <- sample(0:75, NA="

> data.frame(Score)

No.1 X72 X62

1 No.2 88 97

2 No.3 76 66

3 No.4 89 51

4 No.5 46 15

5 No.6 16 87

6 No.7 32 51

7 No.8 51 0

8 No.9 73 1

9 No.10 99 14

10 No.11 3 NA

11 No.12 15 83

12 No.13 74 50

13 No.14 0 81

14 No.15 39 6

15 No.16 46 93

16 No.17 39 81

17 No.18 40 NA

18 No.19 18 60

19 No.20 96 72

20 No.21 45 51

21 No.22 33 72

22 No.23 97 75

23 No.24 71 9

24 No.25 65 40

25 No.26 39 29

26 No.27 70 62

27 No.28 NA 98

28 No.29 22 62

29 No.30 48 52

30 No.31 80 91

31 No.32 0 64

32 No.33 18 NA

33 No.34 68 25

34 No.35 37 21

35 No.36 36 61

36 No.37 87 38

37 No.38 91 NA

38 No.39 NA 38

39 No.40 13 80

40 No.41 79 91

41 No.42 NA 99

42 No.43 93 59

43 No.44 78 0

44 No.45 26 32

45 No.46 32 56

46 No.47 6 52

47 No.48 4 9

48 No.49 5 69

49 No.50 63 71

50 No.51 97 80

51 No.52 83 95

52 No.53 31 18

53 No.54 21 28

54 No.55 73 78

55 No.56 50 3

56 No.57 73 67

57 No.58 8 82

58 No.59 43 66

59 No.60 23 95

60 No.61 79 88

61 No.62 26 70

62 No.63 99 18

63 No.64 76 9

64 No.65 98 81

65 No.66 22 52

66 No.67 95 70

67 No.68 15 21

68 No.69 60 63

69 No.70 95 14

70 No.71 69 96

71 No.72 51 100

72 No.73 37 50

73 No.74 33 92

74 No.75 4 37

>

> # ex2(c)

>

> cor(Score)

錯誤: 'list' object cannot be coerced to type 'double'

> cor <- as.numeric

> cor()

numeric(0)

> cor <- my.cor(Score)

Error in my.cor(Score) : 沒有這個函數 "my.cor"

> my.cor()

Error in my.cor() : 沒有這個函數 "my.cor"

>

> # ex2(d)

>

> # ex3(a)

>

> my.dnorm <- function(x){

+ #µ <- 0

+ #σ <- 1

+ µ <- mean(x)

+ σ <- sd(x)

+ }

>

> my.dnorm(2.5, 3, 2)

Error in my.dnorm(2.5, 3, 2) : unused arguments (3, 2)

>

> dnorm(2.5, 3, 2)

[1] 0.1933341

>

> # ex3(b)

>

> data.frame(my dnorm, dnorm)

錯誤: unexpected symbol in "data.frame(my dnorm"

>