

> #2020/12/11(五), 109 學年第一學期 資料科學應用 R 作業(5)

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> #ex2.4(a)

> for(i in 1:5){

+ for(j in 1:i){

+ cat(j)

+ }

+ cat("\r\n")

+ }

1

12

123

1234

12345

> #ex2.4(b)

> zebra <- 1

> for(i in 4:0){

+ for(zebra in zebra ){

+ cat(rep(" ", each = i))

+ cat(rep((zebra), (each = zebra)))

+ zebra <-zebra +2

+ }

+ cat("\n")

+ }

1

3 3 3

5 5 5 5 5

7 7 7 7 7 7 7

9 9 9 9 9 9 9 9

> #ex2.50

> y <- c(25, 49, 95, 178, 264, 327, 373)

> f <- matrix( 0, 7, 7)

> function (save = "default", status = 0, runLast = TRUE)

+ .Internal(quit(save, status, runLast))

function (save = "default", status = 0, runLast = TRUE)

.Internal(quit(save, status, runLast))

> for(i in 1:7){

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+ for( j in 1:7){
+ if(abs(y[i]- y[j])<50)
+ f[i , j] <- 100
+ else if(abs(y[i]- y[j])<300)
+ f[i , j] <- 100 + abs(y[i]- y[j]) -50
+ else
+ f[i , j] <- 400
+ }
+ }
> f
      [,1] [,2] [,3] [,4] [,5] [,6] [,7]
[1,]  100   100   120   203   289   400   400
[2,]  100   100   100   179   265   328   400
[3,]  120   100   100   133   219   282   328
[4,]  203   179   133   100   136   199   245
[5,]  289   265   219   136   100   113   159
[6,]  400   328   282   199   113   100   100
[7,]  400   400   328   245   159   100   100
>
>

```