

> #2020/12/11(五), 109 學年第一學期 資料科學應用 R 作業(6)

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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

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

> a <- 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){
```

```
+   for( j in 1:7){
```

```
+     if(abs(x[i]- x[j])<50)
```

```
+       a[i , j] <- 100
```

```
+     else if(abs(x[i]- x[j])<300)
```

```
+       a[i , j] <- 100 + abs(x[i]- x[j]) -50
```

```
+     else
```

```
+       a[i , j] <- 400
```

```
+   }
```

```
+ }
```

```
> a
```

```
      [,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
```

```
>
```