```
#2020/12/04(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("\n")
+
+ }
1
12
123
1234
12345
> # ex2.4(b)
> j = 1
> for(i in 4:0){
      for(j in j){
           cat(rep(" ",each = i))
+
           cat(rep((j), (each = j)))
           j = j + 2
+
      }
+
      cat("\n")
+
+ }
        1
     333
   55555
 777777
99999999
> # ex2.50
> x <- c(25, 49, 95, 178, 264, 327, 373)
> a <- matrix(0, 7, 7, dimnames=list(LETTERS[1:7],LETTERS[1:7]))
> 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
         B C D E
                                 G
A 100 100 120 203 289 400 400
B 100 100 100 179 265 328 400
C 120 100 100 133 219 282 328
D 203 179 133 100 136 199 245
E 289 265 219 136 100 113 159
F 400 328 282 199 113 100 100
G 400 400 328 245 159 100 100
>
```