```
>#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("\r\n")
+
+ }
1
12
123
1234
12345
> #ex2.4(b)
> count <- 1
> for(i in 4:0){
       for(count in count ){
           cat(rep(" ", each = i))
           cat(rep((count), (each = count)))
           count <-count +2
+
       }
      cat("\n")
+
+ }
        1
      3 3 3
   55555
 777777
99999999
> #ex2.50
> x <- c(25, 49, 95, 178, 264, 327, 373)
> a <- matrix(0, 7, 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
     [,1] [,2] [,3] [,4] [,5] [,6] [,7]
[1,]
         100
               120
                    203 289
     100
                                400
                                      400
[2,]
                     179
                           265
     100
          100
                100
                                328
                                      400
    120
[3,]
          100
                           219
                100
                     133
                                282
                                      328
[4,]
                                      245
     203
          179
                133
                     100
                           136
                                 199
[5,]
     289
          265
                219
                     136
                           100
                                 113
                                      159
[6,]
     400
          328
                282
                     199
                           113
                                 100
                                      100
[7,]
                328
                                100 100
     400
          400
                     245
                           159
```