```
>#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)
> c <- 1
> for(i in 4:0){
    for(c in c){
      cat(rep(" ", each = i))
      cat(rep((c), (each = c)))
+
      c <-c +2
+
    }
    cat("\n")
+ }
        1
     333
   55555
 777777
99999999
> #ex2.50
> x <- c(25, 49, 95, 178, 264, 327, 373)
> y <- matrix( 0, 7, 7)
> for(i in 1:7){
    for( j in 1:7){
+
      if(abs(x[i]-x[j])<50)
```

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