學號:A106260020　　姓名:楊鎵綺

```
#exl2.4(a)
> for(i in 1:5){
+     for(j in 0){
+        cat(seq(i + j), "\n")
+     }
+ }
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
>
#exl2.4(b)
> for (i in seq(1, 9, 2)){
+     for(k in 1:(5-i/2+1))cat(" ")
+     cat(rep(i, c(i)))
+     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 9
>
#exl2.50
> price <- function(x){
+     a <- matrix(x, length(x), ncol=length(x), byrow=TRUE)
+     b <- matrix(x, length(x), ncol=length(x))
+     d <- a-b
+     d[d<0] <- -d[d<0]
+     rownames(d) <- c(LETTERS[1:length(x)])
+     colnames(d) <- c(LETTERS[1:length(x)])
+     ifelse(d < 50, 100, ifelse(d >= 50 & d <= 300, 100+(d-50), 400))
+ }
>
> x <- c(25, 49, 95, 178, 264, 327, 373)
```

```
> price(x)
    A   B   C   D   E   F   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
```