

學號:A106260020 姓名:楊鎔綺

#exl2.24

```
> set.seed(123456)
```

```
> score <- sample(1:100, 50, T)
```

```
> score
```

```
[1] 60 42 71 54 100 74 3 67 94 23 67 92 38 2 80
[16] 85 65 56 24 98 46 14 79 35 80 54 87 67 98 70
[31] 63 48 29 46 38 54 50 62 98 30 73 10 48 4 26
[46] 82 75 68 24 60
```

```
> my.test <- function(x){
```

```
+ x.num <- length(x)
```

```
+ pass.p <- length(x[x >= 60])/x.num*100
```

```
+ fail.p <- length(x[x < 60])/x.num*100
```

```
+ if(pass.p >= 50 && x >= 90){
```

```
+   cat("本次成績不調分，平均為:", mean(x))
```

```
+ }else{
```

```
+   cat("本次成績會調分，不及格比例為:", fail.p, "%")
```

```
+ }
```

```
+ }
```

```
>
```

```
> my.test(score)
```

本次成績會調分，不及格比例為: 48 %

#exl2.43

```
> ComputeWeight <- function(input1, input2){
```

```
+ input1 <- scan(what="character")
```

```
+ input2 <- scan()
```

```
+ m <- (input2 - 80)*0.7
```

```
+ f <- (input2 - 70)*0.6
```

```
+ if(input1 == "male"){
```

```
+   cat("男性標準體重 =", m, "kg")
```

```
+ }else{
```

```
+   cat("女性標準體重 =", f, "kg")
```

```
+ }
```

```
+ }
```

```
> ComputeWeight()
```

1: male

2:

Read 1 item

1: 175

2:

Read 1 item

男性標準體重 = 66.5 kg

> ComputeWeight()

1: female

2:

Read 1 item

1: 166

2:

Read 1 item

女性標準體重 = 57.6 kg