

2017 Machine Learning – R programming

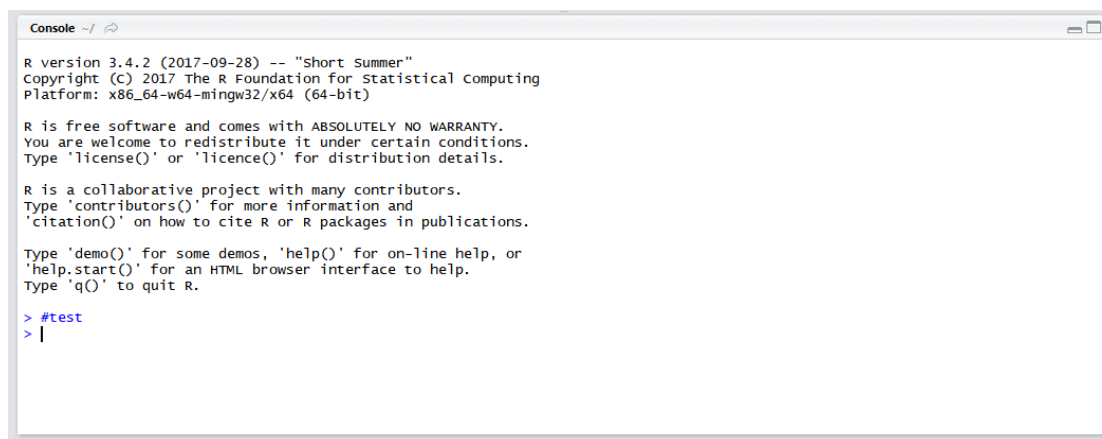
Homework 1

2017/09/30

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Part I:

在 RStudio 中的 Console(左下視窗)，執行指令 **"#test"**



```
Console ~/ / ↵  
  
R version 3.4.2 (2017-09-28) -- "Short Summer"  
Copyright (c) 2017 The R Foundation for Statistical Computing  
Platform: x86_64-w64-mingw32/x64 (64-bit)  
  
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Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.  
  
> #test  
> |
```

Part II:

1. 使用加減乘除、指數、取餘數運算符號來計算結果

```
> 1 + 2 #addition  
[1] 3  
> 1 - 2 #subtraction  
[1] -1  
> 1 * 2 #multiplication  
[1] 2  
> 1 / 2 #division  
[1] 0.5  
> 2 ^ 3 #exponentiation  
[1] 8  
> 11 %% 5 #modulo  
[1] 1  
> |
```

2. 使用統計函數

sum(x)	相加
mean(x)	算術平均
cumsum(x)	累積相加
min(x)	最小值
max(x)	最大值
median(x)	中位數
var(x)	變異數
sd(x)	標準差
range(x)	最大最小值
diff(x)	差分
prod(x)	相乘
cumprod(x)	累積相乘

[illegible]