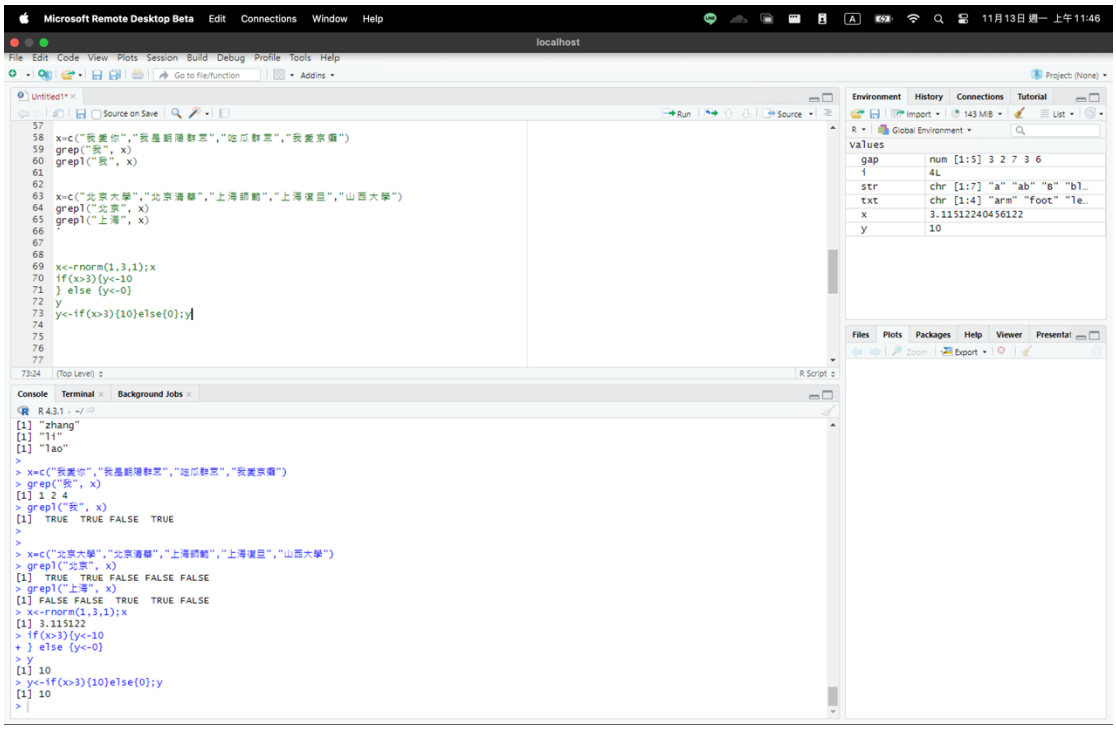
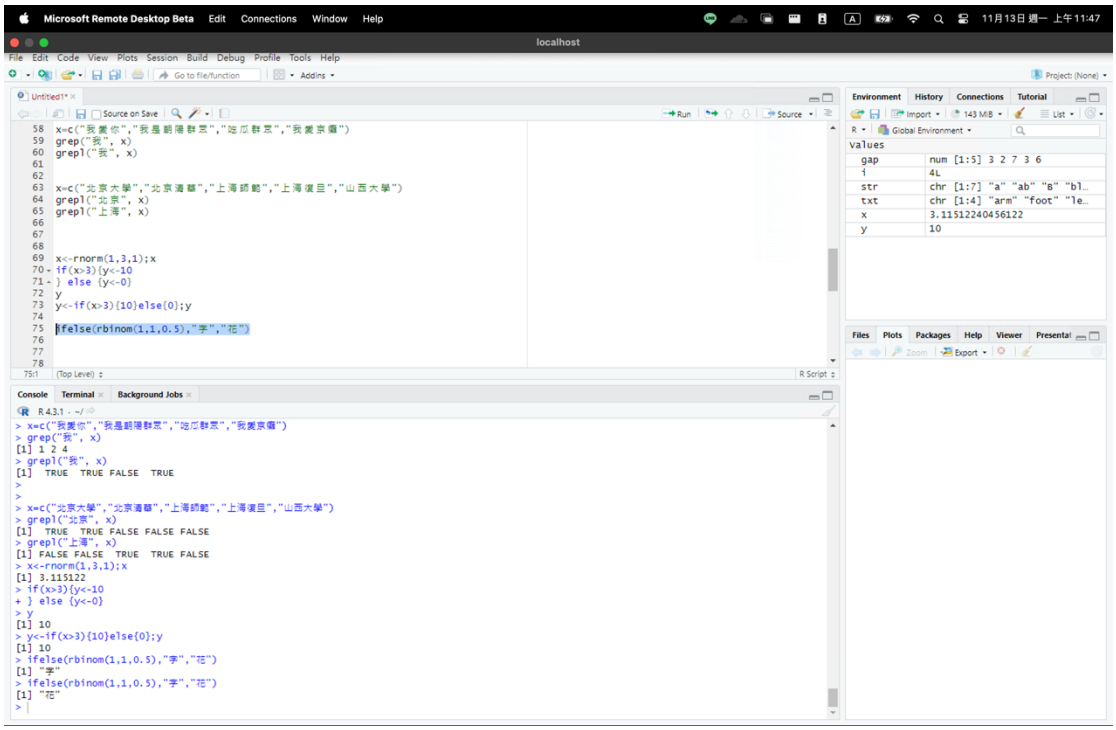
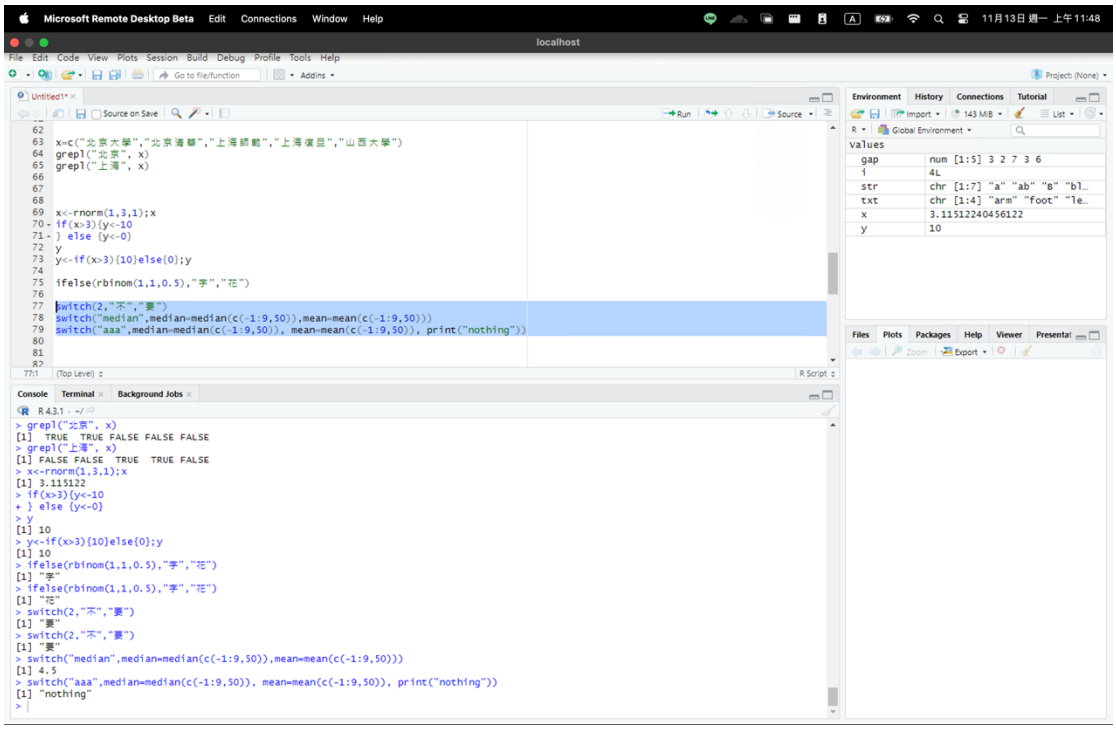
if


Microsoft Remote Desktop Beta Edit Connections Window Help
11月13日 週一 上午11:46
localhost
File Edit Code View Plots Session Build Debug Profile Tools Help
Untitled1*
57
58 x=c("我愛你","我是顧陽群眾","哈瓜群眾","我愛京儀")
59 grep("我", x)
60 grepl("我", x)
61
62
63 x=c("北京大學","北京清華","上海師範","上海復旦","山西大學")
64 grepl("北京", x)
65 grepl("上海", x)
66
67
68
69 x<-rnorm(1,3,1);x
70 if(x>3){y<-10
71 } else {y<-0}
72 y
73 y<-if(x>3){10}else{0};y
74
75
76
77
73:24 (Top Level)
R Script
Environment History Connections Tutorial
Import 143 MiB List
R Global Environment
values
gap num [1:5] 3 2 7 3 6
i 4L
str chr [1:7] "a" "ab" "e" "bl...
txt chr [1:4] "arm" "foot" "le...
x 3.11512240456122
y 10
Files Plots Packages Help Viewer Presenta
Export
Console Terminal Background Jobs
R 4.3.1 · ~/
[1] "zhang"
[1] "li"
[1] "lao"
>
> x=c("我愛你","我是顧陽群眾","哈瓜群眾","我愛京儀")
> grep("我", x)
[1] 1 2 4
> grepl("我", x)
[1] TRUE TRUE FALSE TRUE
>
>
> x=c("北京大學","北京清華","上海師範","上海復旦","山西大學")
> grepl("北京", x)
[1] TRUE TRUE FALSE FALSE FALSE
> grepl("上海", x)
[1] FALSE FALSE TRUE TRUE FALSE
> x<-rnorm(1,3,1);x
[1] 3.115122
> if(x>3){y<-10
+ } else {y<-0}
> y
[1] 10
> y<-if(x>3){10}else{0};y
[1] 10
>

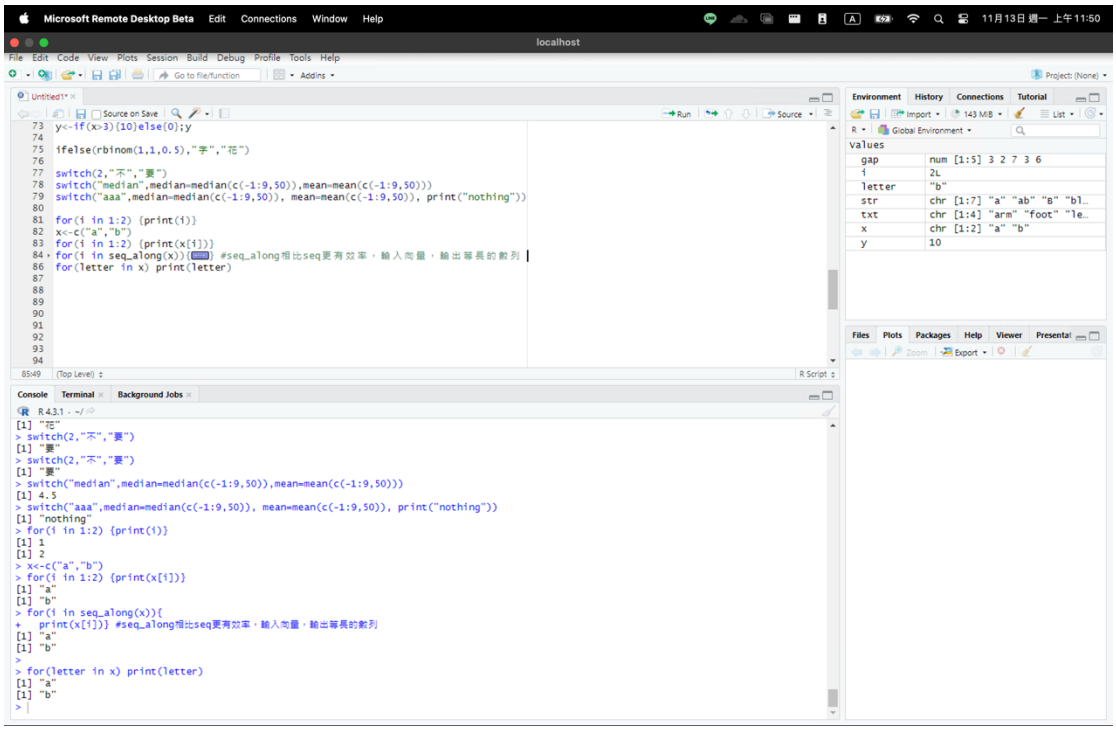
ifelse


Microsoft Remote Desktop Beta Edit Connections Window Help
11月13日 週一 上午11:47
localhost
File Edit Code View Plots Session Build Debug Profile Tools Help
Untitled1*
58 x=c("我愛你","我是顧陽群眾","哈瓜群眾","我愛京儀")
59 grep("我", x)
60 grepl("我", x)
61
62
63 x=c("北京大學","北京清華","上海師範","上海復旦","山西大學")
64 grepl("北京", x)
65 grepl("上海", x)
66
67
68
69 x<-rnorm(1,3,1);x
70 if(x>3){y<-10
71 } else {y<-0}
72 y
73 y<-if(x>3){10}else{0};y
74
75 ifelse(rbinom(1,1,0.5),"李","花")
76
77
78
75:1 (Top Level)
R Script
Environment History Connections Tutorial
Import 143 MiB List
R Global Environment
values
gap num [1:5] 3 2 7 3 6
i 4L
str chr [1:7] "a" "ab" "e" "bl...
txt chr [1:4] "arm" "foot" "le...
x 3.11512240456122
y 10
Files Plots Packages Help Viewer Presenta
Export
Console Terminal Background Jobs
R 4.3.1 · ~/
> x=c("我愛你","我是顧陽群眾","哈瓜群眾","我愛京儀")
> grep("我", x)
[1] 1 2 4
> grepl("我", x)
[1] TRUE TRUE FALSE TRUE
>
>
> x=c("北京大學","北京清華","上海師範","上海復旦","山西大學")
> grepl("北京", x)
[1] TRUE TRUE FALSE FALSE FALSE
> grepl("上海", x)
[1] FALSE FALSE TRUE TRUE FALSE
> x<-rnorm(1,3,1);x
[1] 3.115122
> if(x>3){y<-10
+ } else {y<-0}
> y
[1] 10
> y<-if(x>3){10}else{0};y
[1] 10
> ifelse(rbinom(1,1,0.5),"李","花")
[1] "李"
> ifelse(rbinom(1,1,0.5),"李","花")
[1] "花"
>

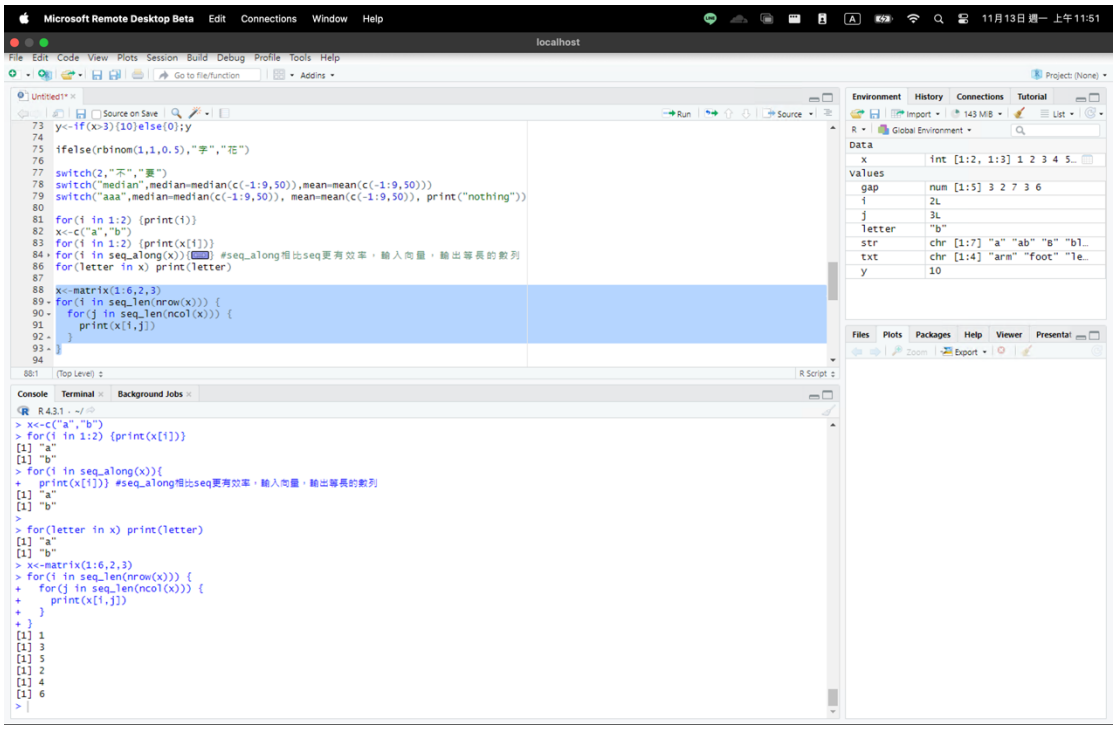
swich


x<-c("北京大學","北京清華","上海師範","上海復旦","山西大學")
grepl("北京", x)
grepl("上海", x)
x<-rnorm(1,3,1);x
if(x>3){y<-10
} else {y<-0}
y
y<-if(x>3){10}else{0};y
ifelse(rbinom(1,1,0.5),"字","花")
switch(2,"不","要")
switch("median",median=median(c(-1:9,50)),mean=mean(c(-1:9,50)))
switch("aaa",median=median(c(-1:9,50)), mean=mean(c(-1:9,50)), print("nothing"))
> grepl("北京", x)
[1] TRUE TRUE FALSE FALSE FALSE
> grepl("上海", x)
[1] FALSE FALSE TRUE TRUE FALSE
> x<-rnorm(1,3,1);x
[1] 3.115122
> if(x>3){y<-10
+ } else {y<-0}
> y
[1] 10
> y<-if(x>3){10}else{0};y
[1] 10
> ifelse(rbinom(1,1,0.5),"字","花")
[1] "字"
> ifelse(rbinom(1,1,0.5),"字","花")
[1] "花"
> switch(2,"不","要")
[1] "要"
> switch(2,"不","要")
[1] "要"
> switch("median",median=median(c(-1:9,50)),mean=mean(c(-1:9,50)))
[1] 4.5
> switch("aaa",median=median(c(-1:9,50)), mean=mean(c(-1:9,50)), print("nothing"))
[1] "nothing"

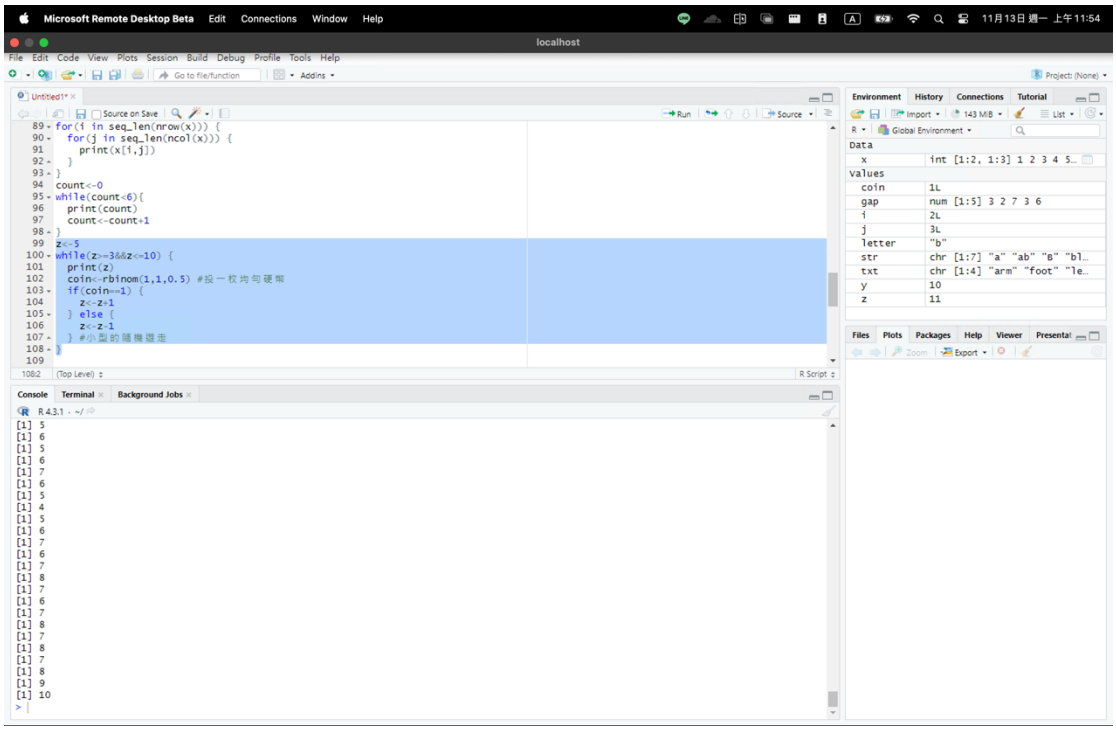
for


y<-if(x>3){10}else{0};y
ifelse(rbinom(1,1,0.5),"字","花")
switch(2,"不","要")
switch("median",median=median(c(-1:9,50)),mean=mean(c(-1:9,50)))
switch("aaa",median=median(c(-1:9,50)), mean=mean(c(-1:9,50)), print("nothing"))
for(i in 1:2) {print(i)}
x<-c("a","b")
for(i in 1:2) {print(x[i])}
for(i in seq_along(x)){ print(x[i])} #seq_along相比seq更有效率，輸入向量，輸出等長的數列
for(letter in x) print(letter)
[1] "花"
> switch(2,"不","要")
[1] "要"
> switch(2,"不","要")
[1] "要"
> switch("median",median=median(c(-1:9,50)),mean=mean(c(-1:9,50)))
[1] 4.5
> switch("aaa",median=median(c(-1:9,50)), mean=mean(c(-1:9,50)), print("nothing"))
[1] "nothing"
> for(i in 1:2) {print(i)}
[1] 1
[1] 2
> x<-c("a","b")
> for(i in 1:2) {print(x[i])}
[1] "a"
[1] "b"
> for(i in seq_along(x)){
+ print(x[i])} #seq_along相比seq更有效率，輸入向量，輸出等長的數列
[1] "a"
[1] "b"
>
> for(letter in x) print(letter)
[1] "a"
[1] "b"

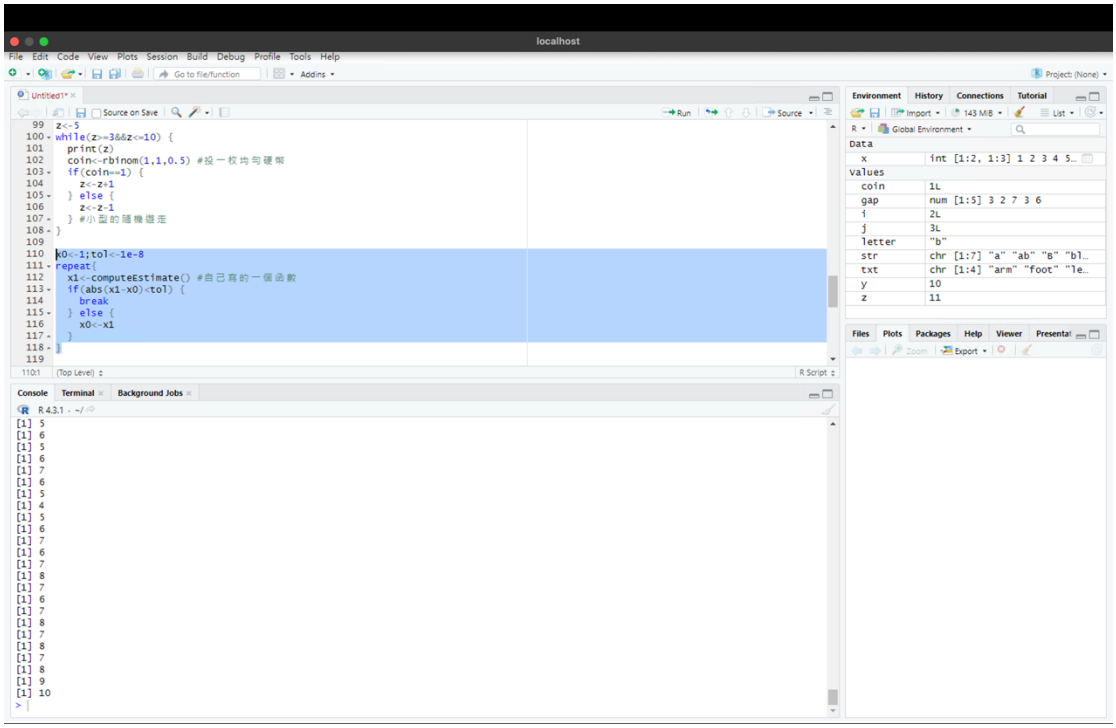
巢狀 for


Microsoft Remote Desktop Beta Edit Connections Window Help
11月13日 週一 上午11:51
localhost
File Edit Code View Plots Session Build Debug Profile Tools Help
y<-if(x>3){10}else{0};y
ifelse(rbinom(1,1,0.5),"字","花")
switch(2,"不","要")
switch("median",median=median(c(-1:9,50)),mean=mean(c(-1:9,50)))
switch("aaa",median=median(c(-1:9,50)), mean=mean(c(-1:9,50)), print("nothing"))
for(i in 1:2) {print(i)}
x<-c("a","b")
for(i in 1:2) {print(x[i])}
for(i in seq_along(x)){ } #seq_along相比seq更有效率，輸入向量，輸出等長的數列
for(letter in x) print(letter)
x<-matrix(1:6,2,3)
for(i in seq_len(nrow(x))) {
for(j in seq_len(ncol(x))) {
print(x[i,j])
}
}
Console Terminal Background Jobs
R 4.3.1 · ~/
> x<-c("a","b")
> for(i in 1:2) {print(x[i])}
[1] "a"
[1] "b"
> for(i in seq_along(x)){
+ print(x[i])} #seq_along相比seq更有效率，輸入向量，輸出等長的數列
[1] "a"
[1] "b"
>
> for(letter in x) print(letter)
[1] "a"
[1] "b"
> x<-matrix(1:6,2,3)
> for(i in seq_len(nrow(x))) {
+ for(j in seq_len(ncol(x))) {
+ print(x[i,j])
+ }
+ }
[1] 1
[1] 3
[1] 5
[1] 2
[1] 4
[1] 6
Environment History Connections Tutorial
Data
x int [1:2, 1:3] 1 2 3 4 5...
Values
gap num [1:5] 3 2 7 3 6
i 2L
j 3L
letter "b"
str chr [1:7] "a" "ab" "b" "bl...
txt chr [1:4] "arm" "foot" "le...
y 10
Files Plots Packages Help Viewer Presentat

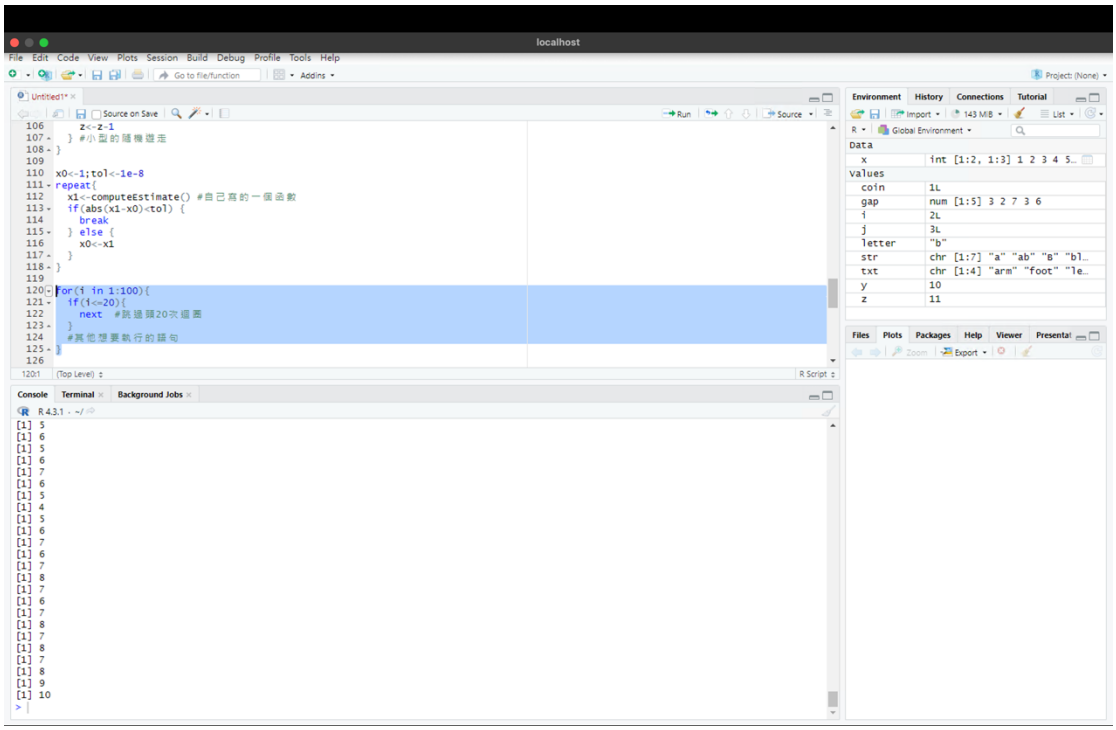
while

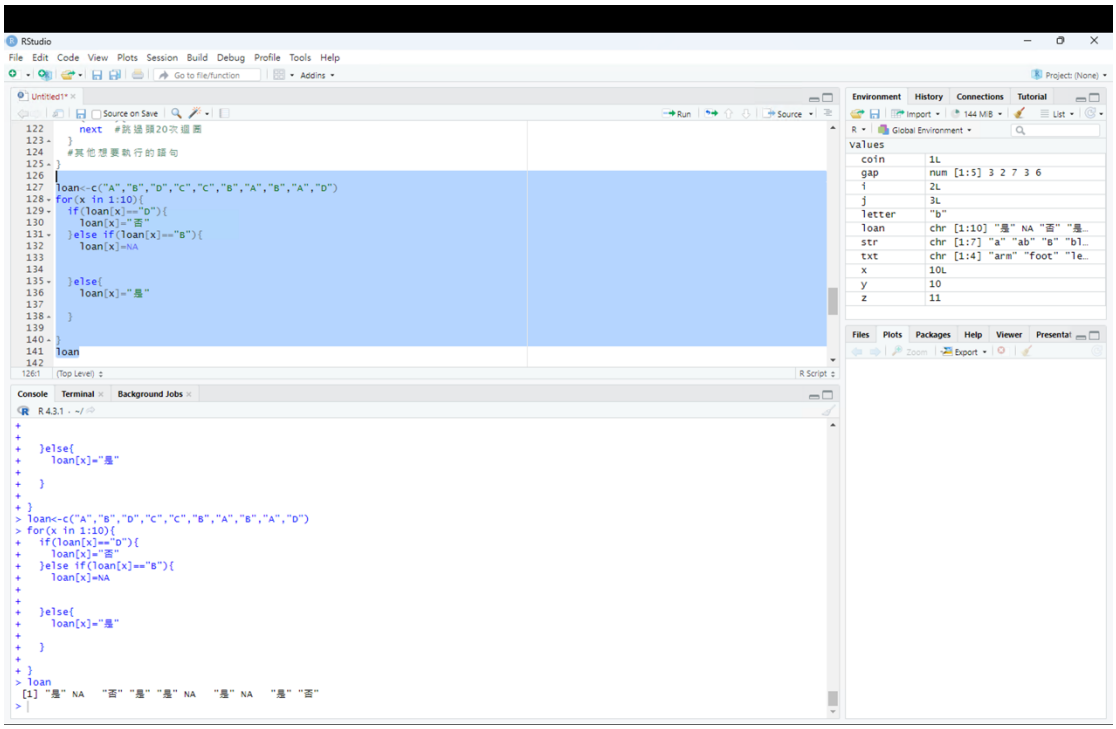

Microsoft Remote Desktop Beta Edit Connections Window Help
11月13日 週一 上午11:54
localhost
for(i in seq_len(nrow(x))) {
for(j in seq_len(ncol(x))) {
print(x[i,j])
}
}
count<-0
while(count<6){
print(count)
count<-count+1
}
z<-5
while(z>=3&&z<=10) {
print(z)
coin<-rbinom(1,1,0.5) #投一枚均勻硬幣
if(coin==1) {
z<-z+1
} else {
z<-z-1
} #小型的隨機遊走
}
[1] 5
[1] 6
[1] 5
[1] 6
[1] 7
[1] 6
[1] 5
[1] 4
[1] 5
[1] 6
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 8
[1] 7
[1] 8
[1] 9
[1] 10
Environment History Connections Tutorial
Data
x int [1:2, 1:3] 1 2 3 4 5...
Values
coin 1L
gap num [1:5] 3 2 7 3 6
i 2L
j 3L
letter "b"
str chr [1:7] "a" "ab" "b" "bl...
txt chr [1:4] "arm" "foot" "le...
y 10
z 11
Files Plots Packages Help Viewer Presentat

repeat


localhost
z<-5
while(z>=3&&z<=10) {
print(z)
coin<-rbinom(1,1,0.5) #投一枚均勻硬幣
if(coin==1) {
z<-z-1
} else {
z<-z-1
} #小型的隨機遊走
}
x0<-1;tol<-1e-8
repeat{
x1<-computeEstimate() #自己寫的一個函數
if(abs(x1-x0)<tol) {
break
} else {
x0<-x1
}
}
[1] 5
[1] 6
[1] 5
[1] 6
[1] 7
[1] 6
[1] 5
[1] 4
[1] 5
[1] 6
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 8
[1] 7
[1] 8
[1] 9
[1] 10

next


localhost
z<-z-1
} #小型的隨機遊走
}
x0<-1;tol<-1e-8
repeat{
x1<-computeEstimate() #自己寫的一個函數
if(abs(x1-x0)<tol) {
break
} else {
x0<-x1
}
}
for(i in 1:100){
if(i<=20){
next #跳過頭20次迴圈
}
#其他想要執行的語句
}
[1] 5
[1] 6
[1] 5
[1] 6
[1] 7
[1] 6
[1] 5
[1] 4
[1] 5
[1] 6
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 6
[1] 7
[1] 8
[1] 7
[1] 8
[1] 7
[1] 8
[1] 9
[1] 10


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Untitled1*
Source on Save
Run
Source
122 next #跳過類20次迴圈
123 }
124 #其他想要執行的語句
125 }
126
127 loan<-c("A","B","D","C","C","B","A","B","A","D")
128 for(x in 1:10){
129 if(loan[x]=="D"){
130 loan[x]="否"
131 }else if(loan[x]=="B"){
132 loan[x]=NA
133
134
135 }else{
136 loan[x]="是"
137
138 }
139
140 }
141 loan
142
126:1 (Top Level)
R Script
Console Terminal Background Jobs
R 4.3.1 · ~/
+
+
+ }else{
+ loan[x]="是"
+
+ }
+
+ }
> loan<-c("A","B","D","C","C","B","A","B","A","D")
> for(x in 1:10){
+ if(loan[x]=="D"){
+ loan[x]="否"
+ }else if(loan[x]=="B"){
+ loan[x]=NA
+
+
+ }else{
+ loan[x]="是"
+
+ }
+
+ }
> loan
[1] "是" NA "否" "是" "是" NA "是" NA "是" "否"
>
Environment History Connections Tutorial
Import
144 MiB
List
R
Global Environment
values
coin 1L
gap num [1:5] 3 2 7 3 6
i 2L
j 3L
letter "b"
loan chr [1:10] "是" NA "否" "是"...
str chr [1:7] "a" "ab" "b" "bl"...
txt chr [1:4] "arm" "foot" "le"...
x 10L
y 10
z 11
Files Plots Packages Help Viewer Presentat
Zoom
Export