

Square of a number:

```
> num(5)
> num<-function(a){
+   for(i in 1:a){
+     b<-i^2
+     print(b)
+   }
+ }
> num(5)
[1] 1
[1] 4
[1] 9
[1] 16
[1] 25
> |
```

Rows and column names:

```
> m<-matrix(c(1,2,3,4,5,6,7,8,9),nrow=3,ncol=3,byrow=TRUE)
> rownames(m)<-c("a","b","c")
> colnames(m)<-c("d","e","f")
> print(m)
  d e f
a 1 2 3
b 4 5 6
c 7 8 9
> |
```

Displaying the array:

```
> a <- function(a) {  
+   for (num in a) {  
+     print(num)  
+   }  
+ }  
> numbers <- c(10, 20, 30, 40, 50)  
> a(numbers)  
[1] 10  
[1] 20  
[1] 30  
[1] 40  
[1] 50  
> |
```

Accessing and filtering the element:

```
> x<-c(10,20,30)  
> print(x[2])  
[1] 20  
>  
>  
> x<-c(1,2,3,4,5,6)  
> print(x[x>3])  
[1] 4 5 6  
> |
```