Actividad 3

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Ejercicio 1

```
A \leftarrow matrix(rnorm(5*4), nrow = 5, ncol = 4)
B \leftarrow matrix(rnorm(4*2), nrow = 4, ncol = 2)
A %*% B
                        [,2]
##
             [,1]
## [1,] 1.5608634 -0.1160897
## [2,] -2.9246900 -0.4664669
## [3,] -1.2348596 -3.1231544
## [4,] 0.6497465 1.7834214
## [5,] -0.6151749 -0.9902962
B * (C \leftarrow matrix(rnorm(4*2), nrow = 4, ncol = 2))
##
            [,1]
                      [,2]
## [1,] 1.0071760 0.9251178
## [2,] 0.3828946 0.1461544
## [3,] 0.1371533 1.5317959
## [4,] 0.1303330 0.2953121
cbind(t(A), B)
             [,1]
                       [,2]
                                  [,3]
                                            [,4]
                                                       [,5]
                                                                  [,6]
## [2,] 0.9318384 1.1974623 -2.1614046 -0.6374531 0.8142529 0.73830764
## [3,] 0.5157797 -0.8969945 -1.9913654 1.0637538 -0.3466653
                                                            0.06447832
## [4,] 0.7858853 -1.0939122 -0.2574545 1.0719797 0.9855050 0.43480387
##
## [1,] 0.8118791
## [2,] -0.5908167
## [3,] 2.1368590
## [4,] -0.5482138
```

Ejercicio 2

```
x <- c(2, 5, 9)
y <- c(6, 5, 8)
z <- vector(mode = "numeric", length = length(x))</pre>
```

```
for (i in 1:length(x)) {
   z[i] \leftarrow x[i] / y[i]
}
z
## [1] 0.3333333 1.0000000 1.1250000
x \leftarrow c(2, 5, "-", 5, 3, "-")
for (i in 1:length(x)) {
   if (x[i] == "-") {
      x[i] <- NA
}
## [1] "2" "5" NA "5" "3" NA
y \leftarrow c(3, 8, 5, 8, 7, 4)
y \leftarrow ifelse(y \% 2 == 1, 0, y)
Ejercicio 3
x \leftarrow c(1, 2, 3)
y <- as.character(x)</pre>
mi_media <- function(x, ...) {</pre>
   if (is.numeric(x) == FALSE) {
       stop("Argument is not numeric")
   media <- sum(x) / length(x)</pre>
   return(media)
}
mi_media(x)
```

```
## [1] 2
```

```
mean(x)
```

[1] 2

```
mi_media(y)
```

Error in mi_media(y): Argument is not numeric