**day 1 assignment**

1 Consider two vectors, x, y x=c(4,6,5,7,10,9,4,15) y=c(0,10,1,8,2,3,4,1) What is the value of:

x\*y

2Consider two vectors, a, b

a=c (1,2,4,5,6) b=c(3,2,4,1,9) What is the value of: cbind(a,b)

CODE A:

> x<-c(4,6,5,7,10,9,4,15)

> y<-c(0,10,1,8,2,3,4,1)

> print(x\*y)

[1] 0 60 5 56 20 27 16 15

CODE B:

> a <- c(1,2,4,5,6)

> b <- c(3,2,4,1,9)

> cbind(a,b)

a b

[1,] 1 3

[2,] 2 2

[3,] 4 4

[4,] 5 1

[5,] 6 9

2) Vector v is c(1,2,3,4) and list x is list(5:8), what is the output of v\*x[1]?

CODE:

> v<-c(1,2,3,4)

> print(v)

[1] 1 2 3 4

> x<-list(5:8)

> print(v\*x[1])

Error in v \* x[1] : non-numeric argument to binary operator

3)Vector v is c(1,2,3,4) and list x is list(5:8), what is the output of v\*x[[1]]

CODE:

> v<-c(1,2,3,4)

> print(v)

[1] 1 2 3 4

> x<-list(5:8)

> print(v\*x[[1]])

[1] 5 12 21 32

4. X is the vector c(5,9.2,3,8.51,NA), What is the output of mean(x)?

CODE:

> x<-c(5,9.2,3,8.51,NA)

> print(mean(x))

[1] NA

5. Give a function in R that replaces all missing values of a vector x with the sum of elements

of that vector?

CODE:

> function(x) { x[is.na(x)] <- sum(x, na.rm = TRUE); x }

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