Fugnsi & Operator & List

sahibul_nf

7/26/2021

Resume belajar R - Variabel dan Vektor

data = c(1,6,9,4,45,63,6,1,4)

max(data) [1] 63 min(data) [1] 1

sqrt(5) [1] 2.2361 sqrt(data) [1] 1.0000 2.4495 3.0000 2.0000 6.7082 7.9373 2.4495 1.0000 2.0000

sort(data) [1] 1 1 4 4 6 6 9 45 63 sort(data, decreasing = true) Error in sort(data, decreasing = true) : object 'true' not found sort(data, decreasing = TRUE) [1] 63 45 9 6 6 4 4 1 1

sort(data) [1] 1 1 4 4 6 6 9 45 63

c(100, 1200) [1] 100 1200

c(sqrt(5)) [1] 2.2361

c(sqrt(2), sqrt(5)) [1] 1.4142 2.2361

rep(2:9) [1] 2 3 4 5 6 7 8 9

rep(1:10, 3) [1] 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 [26] 6 7 8 9 10 rep(sort(data, decreasing = TRUE), 2) [1] 63 45 9 6 6 4 4 1 1 63 45 9 6 6 4 4 1 1

rep(10:1) [1] 10 9 8 7 6 5 4 3 2 1

rep(10:1) # pengulangan decreasing [1] 10 9 8 7 6 5 4 3 2 1

seq(from = 1, to = 10, by = 2) [1] 1 3 5 7 9 seq(from = 1, to = 10, by = 4) [1] 1 5 9

table(data) data 1 4 6 9 45 63 2 2 2 1 1 1

kategori_produk = c("Kosmetik", "Fashion", "Olahraga", "Fashion") factor(kategori_produk) [1] Kosmetik Fashion Olahraga Fashion Levels: Fashion Kosmetik Olahraga levels(factor(kategori_produk)) [1] "Fashion" "Kosmetik" "Olahraga"

barplot(kategori_produk) Error in -0.01 * height : non-numeric argument to binary operator barplot(table(kategori_produk)) kategori_produk[5] = "Fashion" barplot(table(kategori_produk))

plot(table(kategori_produk)) plot(table(data))

i = 10 i < 10 [1] FALSE i == 10 [1] TRUE i >= 10 [1] TRUE

(i <= 10) && (i==10) [1] TRUE (i <= 10) || (i==10) [1] TRUE

matrix(nrow = 2, ncol = 2) [,1] [,2] [1,] NA NA [2,] NA NA View(z) matrix(nrow = 2, ncol = 2) [,1] [,2] [1,] NA NA [2,] NA NA X = matrix(nrow = 2, ncol = 2)

X[2,2] <- 10

X[1,1] = 4 (i <= 10) || (i==10) [1] TRUE

X [,1] [,2] [1,] 4 NA [2,] NA 10 X[1,2] = 7 X [,1] [,2] [1,] 4 7 [2,] NA 10 X[2,1] = 9 X [,1] [,2] [1,] 4 7 [2,] 9 10

X[2,1] [1] 9

Z = matrix(data, nrow = 2, ncol = 2) Warning message: In matrix(data, nrow = 2, ncol = 2) : data length [9] is not a sub-multiple or multiple of the number of rows [2] Z = matrix(data, nrow = 3, ncol = 2) Warning message: In matrix(data, nrow = 3, ncol = 2) : data length [9] is not a sub-multiple or multiple of the number of columns [2] data[10] = 5 Z = matrix(data, nrow = 2, ncol = 2) Z [,1] [,2] [1,] 1 9 [2,] 6 4

Z = matrix(data, nrow = 3, ncol = 2) Warning message: In matrix(data, nrow = 3, ncol = 2) : data length [10] is not a sub-multiple or multiple of the number of rows [3] Z = matrix(data, nrow = 2, ncol = 3) Warning message: In matrix(data, nrow = 2, ncol = 3) : data length [10] is not a sub-multiple or multiple of the number of columns [3] Z = matrix(data, nrow = 3, ncol = 3) Warning message: In matrix(data, nrow = 3, ncol = 3) : data length [10] is not a sub-multiple or multiple of the number of rows [3] Z = matrix(data, nrow = 2, ncol = 2) Z [,1] [,2] [1,] 1 9 [2,] 6 4

Z + X [,1] [,2] [1,] 5 16 [2,] 15 14 View(X)

rowSums(X) [1] 11 19 colSums(X) [1] 13 17 X [,1] [,2] [1,] 4 7 [2,] 9 10 rowMeans(X) [1] 5.5 9.5

dataList = list(data, kategori_produk) mode(data) [1] “numeric” mode(dataList) [1] “list”

dataList [[1]] [1] 1 6 9 4 45 63 6 1 4 5

[[2]] [1] “Kosmetik” “Fashion” “Olahraga” “Fashion” “Fashion”

names(dataList) NULL dataList = list(dataAngka = data, produk = kategori_produk) names(dataList) [1] “dataAngka” “produk”

length(dataList) [1] 2

dataList[2] $produk [1] “Kosmetik” “Fashion” “Olahraga” “Fashion” “Fashion”

dataList$dataAngka[6] [1] 63

dataList$produk[1] [1] “Kosmetik”

dataList[-c(2)] $dataAngka [1] 1 6 9 4 45 63 6 1 4 5

dataList = dataList[-c(2)] length(dataList) [1] 1 dataList[3] $ NULL