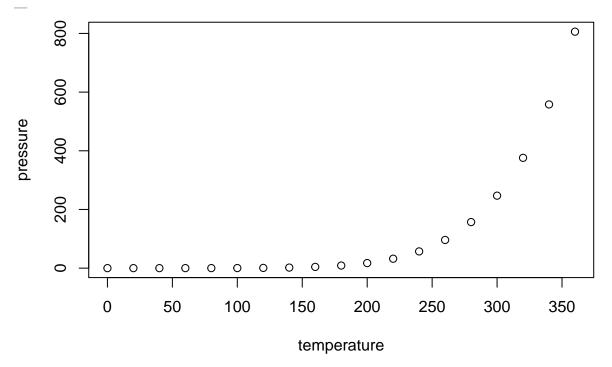
RWorksheet_Barrientos#ARmn.Rmd

Auderie Josh Barrientos

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itle: "RWorksheet_Quebral#3" author: "Myles Andrei Quebral" date: "2024-09-30" output: pdf_document



c.

```
vowels <- Letters[c(1,5,9,15,21)]</pre>
vowels
## [1] "A" "E" "I" "O" "U"
  d.
last5 <- tail(letters,5)</pre>
last5
## [1] "v" "w" "x" "y" "z"
between <- letters[c(15:24)]
between
## [1] "o" "p" "q" "r" "s" "t" "u" "v" "w" "x"
tempp \leftarrow c(42,39,34,34,30,27)
place <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal Island", "Davao City")</pre>
 b.
temp <- mean(tempp)</pre>
temp
## [1] 34.33333
  c.
city_temp <- data.frame(tempp,place)</pre>
city_temp
## tempp
                  place
## 1 42 Tuguegarao City
## 2 39
                 Manila
## 3 34 Iloilo City
## 4 34
                Tacloban
## 5 30 Samal Island
## 6 27 Davao City
names(city_temp) <- c("Temperature", "City")</pre>
city_temp
## Temperature
                          City
## 1
             42 Tuguegarao City
            39
## 2
                        Manila
## 3
           34
                  Iloilo City
## 4
           34
                    Tacloban
           30 Samal Island
## 5
## 6
           27 Davao City
  e.
```

```
str(city_temp)
## 'data.frame': 6 obs. of 2 variables:
## $ Temperature: num 42 39 34 34 30 27
## $ City : chr "Tuguegarao City" "Manila" "Iloilo City" "Tacloban" ...
row_content3 <- city_temp[3,]</pre>
row_content4 <- city_temp[4,]</pre>
row_content3
## Temperature City
## 3 34 Iloilo City
row_content4
## Temperature City
## 4 34 Tacloban
  g.
max_index <- max(city_temp$Temperature)</pre>
max_index
## [1] 42
min_index <- min(city_temp$Temperature)</pre>
min_index
## [1] 27
matrics <- matrix(c(1:8,11:14),nrow=3,ncol=4)</pre>
matrics
## [,1] [,2] [,3] [,4]
## [1,] 1 4 7 12
## [2,] 2 5 8 13
## [3,] 3 6 11 14
multiply <- matrics*2</pre>
multiply
## [,1] [,2] [,3] [,4]
## [1,] 2 8 14 24
## [2,] 4 10 16 26
## [3,] 6 12 22 28
row2 <- matrics[2,]</pre>
row2
## [1] 2 5 8 13
  d.
```

```
display <- matrics[1:2,3:4]</pre>
display
## [,1] [,2]
## [1,] 7 12
## [2,] 8 13
 e.
col23 <- matrics[3,2:3]</pre>
co123
## [1] 6 11
  f.
col4 <- matrics[,4]</pre>
col4
## [1] 12 13 14
dimnames(multiply) <- list( c("isa", "dalawa", "tatlo"), c("uno", "dos", "tres", "quatro"))</pre>
multiply
##
        uno dos tres quatro
## isa
         2 8 14
                          24
## dalawa 4 10 16
                          26
## tatlo 6 12 22
                          28
dim(matrics) \leftarrow c(6,2)
matrics
     [,1] [,2]
## [1,]
        1 7
        2
## [2,]
        3 11
## [3,]
## [4,]
        4 12
        5 13
## [5,]
        6 14
## [6,]
  3.
arr \leftarrow c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1)
## [1] 1 2 3 6 7 8 9 0 3 4 5 1
rra \leftarrow c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1)
rra
## [1] 1 2 3 6 7 8 9 0 3 4 5 1
aray \leftarrow array(c(arr,rra),dim=c(2,4,3))
aray
## , , 1
##
```

```
## [,1] [,2] [,3] [,4]
## [1,] 1 3 7 9
## [2,]
       2 6 8 0
##
## , , 2
##
## [,1] [,2] [,3] [,4]
## [1,]
         3 5 1
## [2,]
         4
             1
                  2
##
## , , 3
##
## [,1] [,2] [,3] [,4]
## [1,]
         7 9 3 5
## [2,]
        8 0 4 1
 b.
  3.
 C.
column.names <- c("A", "B", "C", "D")</pre>
row.names <- c("a", "b")
matrix.names <- c("1st-Dimensional Array", "2nd-Dimensional Array", "3rd-Dimensional Array")
aray \leftarrow array(c(arr,rra),dim = c(2,4,3),dimnames = list(row.names,column.names,
  matrix.names))
aray
## , , 1st-Dimensional Array
##
## A B C D
## a 1 3 7 9
## b 2 6 8 0
##
## , , 2nd-Dimensional Array
##
## A B C D
## a 3 5 1 3
## b 4 1 2 6
##
\ensuremath{\mbox{\#\#}} , , 3rd-Dimensional Array
##
## A B C D
## a 7 9 3 5
## b 8 0 4 1
```