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```
cat("-----\n")

# If...Else inside While Loop (Yahtzee! Example)
dice <- 1
while (dice <= 6) {
  if (dice < 6) {
    print("No Yahtzee")
  } else {
    print("Yahtzee!")
  }
  dice <- dice + 1
}
```

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```
[1] 1
[1] 2
[1] 3
[1] 4
[1] 5
-----
[1] 1
[1] 2
[1] 3
-----
[1] 1
[1] 2
[1] 4
[1] 5
```

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```
[1] "No Yahtzee"  
[1] "Yahtzee!"
```

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```
# AND operator
a <- 200
b <- 33
c <- 500
if (a > b & c > a) {
  print("Both conditions are true")
}

# OR operator
if (a > b | a > c) {
  print("At least one of the conditions is true")
}
```

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```
 Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.
[1] 12
[1] TRUE
[1] TRUE
[1] FALSE
[1] "Hello World"
We are the so-called "Vikings", from the north.
[1] TRUE
[1] FALSE
[1] FALSE
[1] TRUE
```

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```
[1] 5
[1] 50
[1] 2
[1] 1e+05
[1] 0
[1] 2
[1] 3
[1] FALSE
[1] TRUE
[1] TRUE
[1] FALSE
[1] TRUE
[1] FALSE
[1] TRUE
[1] FALSE
[1] TRUE
[1] TRUE
[1] TRUE
[1] FALSE
[1] 1 2 3 4 5 6 7 8 9 10
[1] TRUE
[1] "b is greater than a"
[1] "a and b are equal"
[1] "a is greater than b"
[1] "b is not greater than a"
[1] "Above ten"
[1] "and also above 20!"
[1] "Both conditions are true"
[1] "At least one of the conditions is true"
```

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```
--> 41  
x <- 41  
  
if (x > 10) {  
  print("Above ten")  
  if (x > 20) {  
    print("and also above 20!")  
  } else {  
    print("but not above 20.")  
  }  
} else {  
  print("below 10.")  
}
```

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```
 Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua.  
[1] 12  
[1] TRUE  
[1] TRUE  
[1] FALSE  
[1] "Hello World"  
We are the so-called "Vikings", from the north.  
[1] TRUE  
[1] FALSE  
[1] FALSE  
[1] TRUE
```

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```
[1] 5
[1] 50
[1] 2
[1] 1e+05
[1] 0
[1] 2
[1] 3
[1] FALSE
[1] TRUE
[1] TRUE
[1] FALSE
[1] TRUE
[1] FALSE
[1] TRUE
[1] FALSE
[1] TRUE
[1] TRUE
[1] TRUE
[1] FALSE
[1] 1 2 3 4 5 6 7 8 9 10
[1] TRUE
[1] "b is greater than a"
[1] "a and b are equal"
[1] "a is greater than b"
[1] "b is not greater than a"
[1] "Above ten"
[1] "and also above 20!"
```

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```
# -----
# if ... else Statement
# -----
a <- 200
b <- 33

if (b > a) {
  print("b is greater than a")
} else {
  print("b is not greater than a")
}
```

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```
[1] "b is greater than a"
[1] "a and b are equal"
[1] "a is greater than b"
[1] "b is not greater than a"
```

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```
seq_nums <- c(1, 2, 3, 4)
print(seq_nums)

# %in% Operator
colors <- c("red", "green", "blue")
print("green" %in% colors)
print("yellow" %in% colors)

# Matrix Multiplication
Matrix1 <- matrix(c(1, 2, 3, 4), nrow = 2)
Matrix2 <- matrix(c(2, 0, 1, 2), nrow = 2)
result <- Matrix1 %*% Matrix2
print(result)
```

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```
[1] 13
[1] 7
[1] 30
[1] 3.333333
[1] 1000
[1] 1
[1] 3
[1] 5
[1] 10
[1] 5
[1] 5
[1] FALSE
[1] TRUE
[1] FALSE
```

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```
[1] TRUE  
[1] FALSE  
[1] FALSE  
[1] TRUE  
[1] TRUE  
[1] FALSE  
[1] 1 2 3 4 5  
[1] TRUE  
[1] FALSE  
[1] [,1] [,2]  
[1,]    2    7  
[2,]    4   10
```

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```
a <- 200
b <- 33

if (b > a) {
  print("b is greater than a")
} else {
  print("b is not greater than a")
}

# Boolean with Vectors
nums <- c(1, 2, 3, 4, 5)
print(nums > 3)    # FALSE FALSE FALSE TRUE TRUE
```

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```
[1] TRUE
[1] FALSE
[1] FALSE
[1] TRUE
[1] "b is not greater than a"
[1] FALSE FALSE FALSE TRUE TRUE
```

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```
# Carriage Return
str4 <- "Hello\rWorld" # 'World' overwrites 'Hello' in some consoles
cat(str4, "\n\n")

# Tab
str5 <- "Name:\tJohn"
cat(str5, "\n\n")

# Backspace (might not work in all environments)
str6 <- "Hello\b World"
cat(str6, "\n")
```

Run (Ctrl-Enter)

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```
[1] "We are the so-called \"Vikings\", from the north."
We are the so-called "Vikings", from the north.
```

This is a backslash: \

```
First Line
Second Line
```

HelloWorld

Name: John

Hello\ World

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```
# String length
print(nchar(str))

# Check for substring
print(grepl("Line", str))
print(grepl("XYZ", str))

# Combine strings
str1 <- "Hello"
str2 <- "World"
print(paste(str1, str2))
```

Run (Ctrl-Enter)

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```
[1] "Hello"
Line one
Line two
Line three[1] 28
[1] TRUE
[1] FALSE
[1] "Hello World"
```

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```
grepl("H", str)      # TRUE
grepl("Hello", str)   # TRUE
grepl("X", str)       # FALSE

# -----
# Combine Two Strings
# -----


str1 <- "Hello"
str2 <- "World"
print(paste(str1, str2)) # Output: "Hello World"
```

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```
[1] "hello"
[1] "hello"
[1] "Hello"
[1] "Lorem ipsum dolor sit amet,\nconsectetur adipiscing elit,\nsed do eiusmod tempor incididunt\\nut la
Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.[1] 12
[1] TRUE
[1] TRUE
[1] FALSE
[1] "Hello World"
```

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```
print(max(5, 10, 15)) # Output: 15
print(min(5, 10, 15)) # Output: 5

# Square Root
print(sqrt(16))       # Output: 4

# Absolute Value
print(abs(-4.7))      # Output: 4.7

# Rounding Functions
print(ceiling(1.4))    # Output: 2  (rounds up)
print(floor(1.4))      # Output: 1  (rounds down)
```

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```
[1] 15
[1] 5
[1] 15
[1] 5
[1] 4
[1] 4.7
[1] 2
[1] 1
```

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```
y <- 2          # numeric

# Convert from Integer to Numeric
a <- as.numeric(x)

# Convert from Numeric to Integer
b <- as.integer(y)

print(a)        # 1
print(b)        # 2
print(class(a)) # "numeric"
print(class(b)) # "integer"
```

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```
[1] 10.5
[1] 55
[1] "numeric"
[1] "numeric"
[1] 1000
[1] 55
[1] "integer"
[1] "integer"
[1] 3+5i
[1] 0+5i
[1] "complex"
[1] "complex"
[1] 1
[1] 2
```

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```
# -----
# Number Types in R
# -----  
  
# Numeric (default type for numbers)
x <- 10.5
y <- 55  
  
print(x)          # 10.5
print(y)          # 55
print(class(x))   # "numeric"
print(class(y))   # "numeric"
```

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```
[1] 10.5
[1] 55
[1] "numeric"
[1] "numeric"
[1] 1000
[1] 55
[1] "integer"
[1] "integer"
[1] 3+5i
[1] 0+5i
[1] "complex"
[1] "complex"
[1] 1
[1] 2
```

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```
print(x)          # 9+3i
print(class(x))  # "complex"

# 4. Character / String
x <- "R is exciting"
print(x)          # "R is exciting"
print(class(x))  # "character"

# 5. Logical / Boolean (TRUE or FALSE)
x <- TRUE
print(x)          # TRUE
print(class(x))  # "logical"
```

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```
[1] "numeric"
[1] "character"
[1] 10.5
[1] "numeric"
[1] 1000
[1] "integer"
[1] 9+3i
[1] "complex"
[1] "R is exciting"
[1] "character"
[1] TRUE
[1] "logical"
```

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```
# -----
# Case Sensitivity Example
# -----  
  
age <- 25
Age <- 30
AGE <- 35  
  
# All three are different
print(age) # 25
print(Age) # 30
print(AGE) # 35
```

Run (Ctrl-Enter)

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```
[1] "John"
[1] 25
[1] 30
[1] 35
```

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```
# -----
# Assigning Same Value to Multiple Variables
# -----

# Assign the same value "Orange" to var1, var2, and var3 in one line
var1 <- var2 <- var3 <- "Orange"

# Print variable values
var1 # Output: "Orange"
var2 # Output: "Orange"
var3 # Output: "Orange"
```

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```
[1] "Orange"
[1] "Orange"
[1] "Orange"
```

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```
num1 + num2

# Trying to combine string and number directly (will give error)
# num <- 5
# text <- "Some text"
# num + text  # ❌ Error: non-numeric argument

# Correct way to combine string and number
num <- 5
paste("The number is", num)
```

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```
[1] "Hello World!"
[1] 5
[1] 10
[1] 25
[1] 10
[1] "Hello World!"
[1] "Hello World!"
[1] 1
[1] 2
[1] 3
[1] 4
[1] 5
[1] "Hello World!"
[1] "Hello again!"
```

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```
# You can also add a comment at the end of a line
"Hello World!" # This is a comment at the end

# Comments can prevent code execution
# "Good morning!"      # This line won't execute
"Good night!"         # Only this line executes

# Multiline Comments in R (no special syntax like /* */ in Java)
# This is a comment
# written in
# more than just one line
"Hello World!"        # Output still works after multiline comment
```

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```
[1] "Hello World!"
[1] "Hello World!"
[1] "Good night!"
[1] "Hello World!"
```

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```
# Assigning values using <- (preferred way)
name <- "John"
age <- 40

# Outputting variable values without using print()
name    # Outputs: "John"
age     # Outputs: 40

# Assigning values using = (less preferred but valid)
city = "New York"
city   # Outputs: "New York"
```

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```
[1] "John"
[1] 40
[1] "New York"
```

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```
#  Example where print() is REQUIRED (inside a loop or curly braces)
for (x in 1:10) {
  print(x)           # Must use print to show each value of x
}

#  Another example using curly braces
{
  y <- 7 * 3
  print(paste("The value of y is", y))
}
```

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```
[1] "Hello World!"
[1] "Hello World!"
[1] 1
[1] 2
[1] 3
[1] 4
[1] 5
[1] 6
[1] 7
[1] 8
[1] 9
[1] 10
[1] "The value of y is 21"
```

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```
5 + 5      # Addition
10 - 3     # Subtraction
4 * 6      # Multiplication
20 / 4     # Division

# Combining text and output using print() function
print("This is a printed message.")
print(100)

# Using cat() function to combine text and variable
a <- 50
cat("The value of a is:", a)
```

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```
[1] "Hello World!"
[1] "Welcome to R Programming!"
[1] 5
[1] 10
[1] 25
[1] 10
[1] 7
[1] 24
[1] 5
[1] "This is a printed message."
[1] 100
The value of a is: 50
```



myCompiler

R

R

Run

Save

```

1 # Load mtcars dataset
2 Data_Cars <- mtcars
3
4 # Sorted observation of 'wt'
5 sorted_wt <- sort(Data_Cars$wt)
6 cat("Sorted 'wt' values:\n")
7 print(sorted_wt)
8
9 # Calculate median of 'wt'
10 median_wt <- median(Data_Cars$wt)
11 cat("\nMedian weight (wt):", median_wt, "\n")
12
13 # Calculate mode of 'wt'
14 mode_wt <- as.numeric(names(sort(-table(Data_Cars$wt))))
15 cat("Mode weight (wt):", mode_wt, "\n")
16
17 # Calculate percentiles (quartiles)
18 percentiles <- quantile(Data_Cars$wt)
19 cat("\nPercentiles (Quartiles):\n")
20 print(percentiles)
21
22 # Calculate specific percentile (75%)
23 percentile_75 <- quantile(Data_Cars$wt, 0.75)
24 cat("\n75th Percentile of weight (wt):", percentile_75,
25
26 # Plot histogram with median line
27 hist(Data_Cars$wt,
28       main = "Histogram of Car Weights",
29       xlab = "Weight (wt)",
30       col = "skyblue",
31       border = "white")
32
33 # Add median line
34 abline(v = median_wt, col = "red", lwd = 2)
35 text(median_wt, 3, labels = paste("Median:", median_wt))
36
37 # Add 75th percentile line
38 abline(v = percentile_75, col = "darkgreen", lwd = 2)
39 text(percentile_75, 2.5, labels = paste("75%:", round(p
40

```

Program input

Output

Sorted 'wt' values:

[1] 1.513 1.615 1.835 1.93
[13] 3.150 3.170 3.190 3.21
[25] 3.730 3.780 3.840 3.84

Median weight (wt): 3.325

Mode weight (wt): 3.44

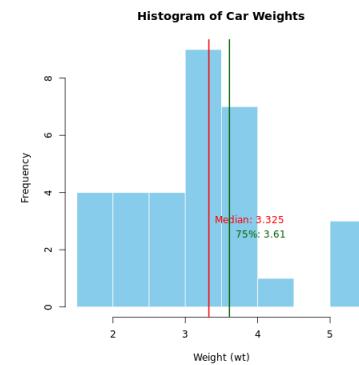
Percentiles (Quartiles):

0% 25% 50%

1.51300 2.58125 3.32500 3.6

75th Percentile of weight (

[Execution complete with ex



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41
42
performance
with
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ADD TO CARBON

Supported languages

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myCompiler

R



R ▾



▶ Run

Save

```

1 # Load the mtcars dataset
2 Data_Cars <- mtcars
3
4 # Calculate the median weight
5 median_wt <- median(Data_Cars$wt)
6
7 # Print the median
8 cat("Median weight (wt):", median_wt, "\n\n")
9
10 # Sort and display the 'wt' values
11 sorted_wt <- sort(Data_Cars$wt)
12 cat("Sorted 'wt' values:\n")
13 print(sorted_wt)
14
15 # Plot a histogram of 'wt' with the median line
16 hist(Data_Cars$wt,
17       main = "Histogram of Car Weights",
18       xlab = "Weight (wt)",
19       col = "skyblue",
20       border = "white")
21
22 # Add a red line for the median
23 abline(v = median_wt, col = "red", lwd = 2)
24
25 # Label the median on the plot
26 text(median_wt, 3, labels = paste("Median:", median_wt),
27

```

Program input

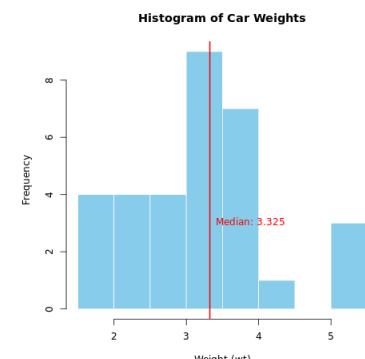
Output

Median weight (wt): 3.325

Sorted 'wt' values:

```
[1] 1.513 1.615 1.835 1.93
[13] 3.150 3.170 3.190 3.21
[25] 3.730 3.780 3.840 3.84
```

[Execution complete with ex



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Supported languages

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SQL	MySQL	MongoDB	Clojure	D	Perl
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myCompiler

R



Run

Save

```

1 # Load the mtcars dataset
2 Data_Cars <- mtcars
3
4 # Find the maximum and minimum horsepower values
5 max_hp <- max(Data_Cars$hp)
6 min_hp <- min(Data_Cars$hp)
7
8 # Print the max and min values
9 cat("Maximum horsepower:", max_hp, "\n")
10 cat("Minimum horsepower:", min_hp, "\n")
11
12 # Find the index of the max and min horsepower
13 max_index <- which.max(Data_Cars$hp)
14 min_index <- which.min(Data_Cars$hp)
15
16 # Find the car names with max and min horsepower
17 car_with_max_hp <- rownames(Data_Cars)[max_index]
18 car_with_min_hp <- rownames(Data_Cars)[min_index]
19
20 # Print the car names
21 cat("Car with maximum horsepower:", car_with_max_hp, "\n")
22 cat("Car with minimum horsepower:", car_with_min_hp, "\n")
23
24 # Potential outliers (hypothetical examples)
25 cat("\nHypothetical outlier examples:\n")
26 cat("- A car with 11 forward gears\n")
27 cat("- A car with 0 horsepower\n")
28 cat("- A car weighing 50,000 lbs\n")
29
30

```

Program input

Output

Maximum horsepower: 335
 Minimum horsepower: 52
 Car with maximum horsepower
 Car with minimum horsepower

Hypothetical outlier example
 - A car with 11 forward gears
 - A car with 0 horsepower
 - A car weighing 50,000 lbs

[Execution complete with exit status 0]



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myCompiler

R

R ▾

Run

Save

```

1 # Load the mtcars dataset
2 Data_Cars <- mtcars
3
4 # View the full dataset
5 print(Data_Cars)
6
7 # Get documentation about the mtcars dataset
8 ?mtcars
9
10 # Get the dimensions of the dataset
11 dim(Data_Cars) # Returns: 32 rows, 11 columns
12
13 # Get the names of all variables (columns)
14 names(Data_Cars)
15
16 # Get the row names (car names)
17 rownames(Data_Cars)
18
19 # Summary with improved readability using factor conversi
20 mtcars2 <- within(Data_Cars, {
21   vs <- factor(vs, labels = c("V", "S"))
22   am <- factor(am, labels = c("automatic", "manual"))
23   cyl <- ordered(cyl)
24   gear <- ordered(gear)
25   carb <- ordered(carb)
26 })
27
28 # View a statistical summary of the transformed dataset
29 summary(mtcars2)
30
31 # Visualize pairwise relationships
32 require(graphics)
33 pairs(Data_Cars, main = "mtcars data", gap = 1/4)
34
35 # Conditional scatter plot: mpg vs disp conditioned on cyl
36 coplot(mpg ~ disp | as.factor(cyl), data = Data_Cars,
37         panel = panel.smooth, rows = 1)
38

```

Program input

Output

	mpg
Mazda RX4	21.0
Mazda RX4 Wag	21.0
Datsun 710	22.8
Hornet 4 Drive	21.4
Hornet Sportabout	18.7
Valiant	18.1
Duster 360	14.3
Merc 240D	24.4
Merc 230	22.8
Merc 280	19.2
Merc 280C	17.8
Merc 450SE	16.4
Merc 450SL	17.3
Merc 450SLC	15.2
Cadillac Fleetwood	10.4
Lincoln Continental	10.4
Chrysler Imperial	14.7
Fiat 128	32.4
Honda Civic	30.4
Toyota Corolla	33.9
Toyota Corona	21.5
Dodge Challenger	15.5
AMC Javelin	15.2
Camaro Z28	13.3
Pontiac Firebird	19.2
Fiat X1-9	27.3
Porsche 914-2	26.0
Lotus Europa	30.4
Ford Pantera L	15.8
Ferrari Dino	19.7
Maserati Bora	15.0

`Volvo 142E``21.4``mtcars``pac``_EM_Bo_Bt_Bo_Br _BT_Br_Be``_BD_Be_Bs_Bc_Br_Bi_Bp_Bt`

The data was extract
and comprises fuel c
and performance for

`_BU_Bs_Ba_Bg_Be:``mtcars``_BF_Bo_Br_Bm_Ba_Bt:`

A data frame with 32

[, 1]	mpg	Miles
[, 2]	cyl	Number
[, 3]	disp	Displa
[, 4]	hp	Gross
[, 5]	drat	Rear
[, 6]	wt	Weigh
[, 7]	qsec	1/4 m
[, 8]	vs	Engin
[, 9]	am	Trans
[,10]	gear	Number
[,11]	carb	Number

`_BN_Bo_Bt_Be:`

Henderson and Velle
'Hocking [original t
rotary engine as a s
flat engine as a V e
Mercedes 240D, have
be made with previous

`_BS_Bo_Bu_Br_Bc_Be:`

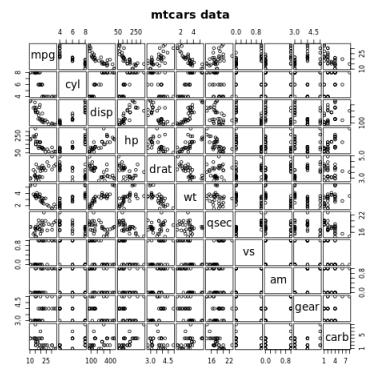
Henderson and Velle
interactively. _Bio

`_BE_Bx_Ba_Bm_Bp_Bl_Be_Bs:`

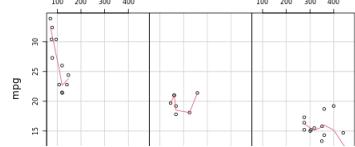
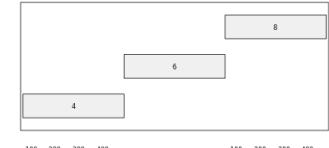
```
require(graphics)
pairs(mtcars, main =
coplot(mpg ~ disp | 
       panel = panel
## possibly more mea
mtcars2 <- within(mt
vs <- factor(vs,
am <- factor(am,
cyl <- ordered(c
gear <- ordered(g
carb <- ordered(c
})
summary(mtcars2)
```

```
[1] 32 11
[1] "mpg"   "cyl"   "disp"
[11] "carb"
[1] "Mazda RX4"
[4] "Hornet 4 Drive"
[7] "Duster 360"
[10] "Merc 280"
[13] "Merc 450SL"
[16] "Lincoln Continental"
[19] "Honda Civic"
[22] "Dodge Challenger"
[25] "Pontiac Firebird"
[28] "Lotus Europa"
[31] "Maserati Bora"
      mpg          cyl
Min.   :10.40    4:11   M
1st Qu.:15.43   6: 7   1
Median :19.20   8:14   M
Mean   :20.09
3rd Qu.:22.80
Max.   :33.90
      wt          qsec
Min.   :1.513    Min.   :
1st Qu.:2.581    1st Qu.:
Median :3.325    Median :
Mean   :3.217    Mean   :
3rd Qu.:3.610    3rd Qu.:
Max.   :5.424    Max.   :
```

[Execution complete with



Given : as.factor(cyl)



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Supported languages

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SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R

R ▾



▶ Run

Save

```
1 # -----
2 # R STATISTICS BASICS
3 # -----
4
5 # Sample dataset
6 data <- c(4, 8, 6, 5, 3, 8, 9, 4, 7, 6)
7
8 # Mean (average)
9 mean_value <- mean(data)
10 cat("Mean:", mean_value, "\n")
11
12 # Median (middle value)
13 median_value <- median(data)
14 cat("Median:", median_value, "\n")
15
16 # Mode (most frequent value) - R doesn't have a built-in
17 get_mode <- function(x) {
18   ux <- unique(x)
19   ux[which.max(tabulate(match(x, ux)))]
20 }
21 mode_value <- get_mode(data)
22 cat("Mode:", mode_value, "\n")
23
24 # Minimum and Maximum
25 min_val <- min(data)
26 max_val <- max(data)
27 cat("Min:", min_val, " | Max:", max_val, "\n")
28
29 # Percentiles (25th and 75th)
30 percentiles <- quantile(data, probs = c(0.25, 0.75))
31 cat("25th Percentile:", percentiles[1], " | 75th Percentile:")
32
33 # Variance
34 variance <- var(data)
35 cat("Variance:", variance, "\n")
36
37 # Standard Deviation
38 std_dev <- sd(data)
39 cat("Standard Deviation:", std_dev, "\n")
40
```

Program input

Output

Mean: 6

Median: 6

Mode: 4

Min: 3 | Max: 9

25th Percentile: 4.25 | 75t

Variance: 4

Standard Deviation: 2

Covariance between x and y:

Correlation between x and y

[Execution complete with ex]

```

41 # Covariance and Correlation between two variables
42 x <- c(1, 2, 3, 4, 5)
43 y <- c(2, 4, 6, 8, 10)
44
45 cov_xy <- cov(x, y)
46 cor_xy <- cor(x, y)
47
48 cat("Covariance between x and y:", cov_xy, "\n")
49 cat("Correlation between x and y:", cor_xy, "\n")
50
51

```



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Supported languages

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C	C++	Java	C#	TypeScript	PHP
Bash	R	Octave (MATLAB)	Fortran	Lua	Erlang
SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



```

1 # -----
2 # FACTORS
3 #
4 music_genre <- factor(
5   c("Jazz", "Rock", "Classic", "Classic", "Pop", "Jazz"
6     levels = c("Classic", "Jazz", "Pop", "Rock", "Opera")
7   )
8
9 # Modify and view factor
10 music_genre[3] <- "Opera"
11 print(music_genre)
12 print(levels(music_genre))
13 print(length(music_genre))
14
15
16 # -----
17 # POINT PLOT
18 #
19 x <- c(1, 2, 3, 4, 5)
20 y <- c(3, 7, 8, 9, 12)
21
22 plot(x, y,
23       main = "Custom Plot: Points & Lines",
24       xlab = "X Axis", ylab = "Y Axis",
25       col = "darkgreen", cex = 1.5, pch = 19)
26
27
28 # -----
29 # LINE PLOTS
30 #
31 line1 <- c(1, 2, 3, 4, 5, 10)
32 line2 <- c(2, 5, 7, 8, 9, 10)
33
34 plot(line1, type = "l", col = "blue", lwd = 2, lty = 2,
35       main = "Line Graph with Multiple Lines",
36       xlab = "Index", ylab = "Values")
37
38 lines(line2, type = "l", col = "red", lwd = 3, lty = 3)
39
40 legend("topleft",

```

Program input

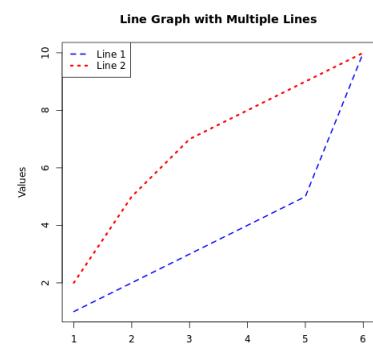
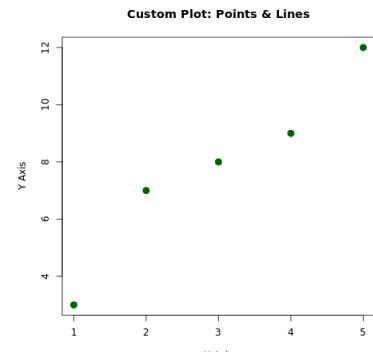
Output

```

[1] Jazz      Rock      Opera
Levels: Classic Jazz Pop Ro
[1] "Classic" "Jazz"    "Po
[1] 8

```

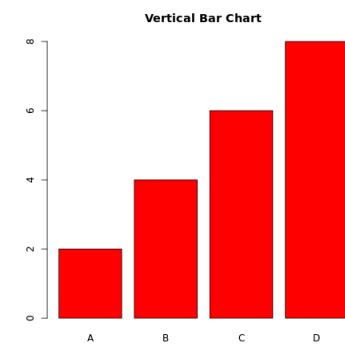
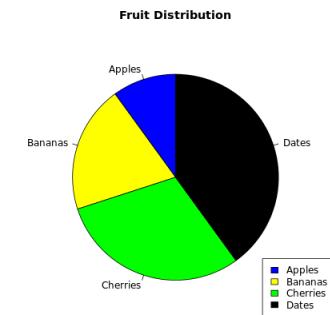
[Execution complete with ex



```

41      legend = c("Line 1", "Line 2"),
42      col = c("blue", "red"),
43      lty = c(2, 3),
44      lwd = c(2, 3))
45
46
47 # -----
48 # PIE CHARTS
49 #
50 x_pie <- c(10, 20, 30, 40)
51 mylabel <- c("Apples", "Bananas", "Cherries", "Dates")
52 colors <- c("blue", "yellow", "green", "black")
53
54 pie(x_pie,
55       labels = mylabel,
56       main = "Fruit Distribution",
57       col = colors,
58       init.angle = 90)
59
60 legend("bottomright", mylabel, fill = colors)
61
62
63 # -----
64 # BAR CHARTS
65 #
66 x_bar <- c("A", "B", "C", "D")
67 y_bar <- c(2, 4, 6, 8)
68
69 # Vertical bar chart with red color
70 barplot(y_bar, names.arg = x_bar, col = "red",
71           main = "Vertical Bar Chart")
72
73 # Bar chart with texture
74 barplot(y_bar, names.arg = x_bar, density = 10,
75           main = "Bar Chart with Texture")
76
77 # Bar chart with custom widths
78 barplot(y_bar, names.arg = x_bar, width = c(1,2,3,4),
79           main = "Bar Chart with Varying Width")
80
81 # Horizontal bar chart
82 barplot(y_bar, names.arg = x_bar, horiz = TRUE,
83           main = "Horizontal Bar Chart")
84

```



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Supported languages

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myCompiler

R



```

1 # -----
2 # FACTORS
3 #
4 music_genre <- factor(
5   c("Jazz", "Rock", "Classic", "Classic", "Pop", "Jazz"
6     levels = c("Classic", "Jazz", "Pop", "Rock", "Opera")
7   )
8
9 # Modify and view factor
10 music_genre[3] <- "Opera"
11 print(music_genre)
12 print(levels(music_genre))
13 print(length(music_genre))
14
15
16 # -----
17 # PLOTTING POINTS
18 #
19 x <- c(1, 2, 3, 4, 5)
20 y <- c(3, 7, 8, 9, 12)
21
22 # Custom scatter plot
23 plot(x, y,
24       main = "Custom Plot: Points & Lines",
25       xlab = "X Axis", ylab = "Y Axis",
26       col = "darkgreen", cex = 1.5, pch = 19)
27
28
29 # -----
30 # LINE PLOTS
31 #
32 line1 <- c(1, 2, 3, 4, 5, 10)
33 line2 <- c(2, 5, 7, 8, 9, 10)
34
35 # Base line plot
36 plot(line1, type = "l", col = "blue", lwd = 2, lty = 2,
37       main = "Line Graph with Multiple Lines",
38       xlab = "Index", ylab = "Values")
39
40 # Add second line

```

Program input

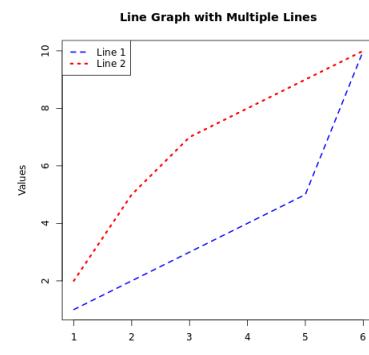
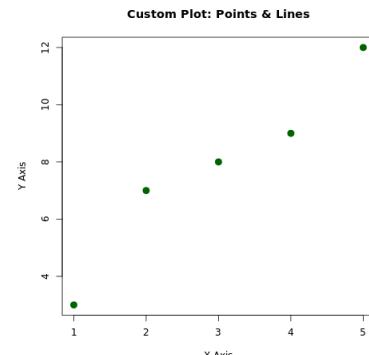
Output

```

[1] Jazz      Rock      Opera
Levels: Classic Jazz Pop Ro
[1] "Classic" "Jazz"    "Po
[1] 8

```

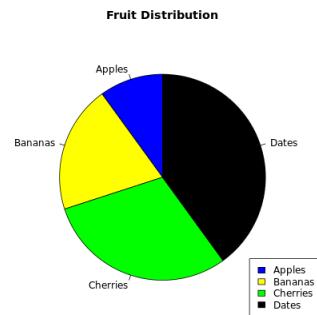
[Execution complete with ex



```

41 lines(line2, type = "l", col = "red", lwd = 3, lty = 3)▲
42
43 # Add legend
44 legend("topleft",
45         legend = c("Line 1", "Line 2"),
46         col = c("blue", "red"),
47         lty = c(2, 3),
48         lwd = c(2, 3))
49
50
51 # -----
52 # PIE CHARTS
53 # -----
54 # Data for pie chart
55 x <- c(10, 20, 30, 40)
56 mylabel <- c("Apples", "Bananas", "Cherries", "Dates")
57 colors <- c("blue", "yellow", "green", "black")
58
59 # Pie chart with labels, colors, start angle, and title
60 pie(x,
61       labels = mylabel,
62       main = "Fruit Distribution",
63       col = colors,
64       init.angle = 90)
65
66 # Add legend
67 legend("bottomright", mylabel, fill = colors)
68

```





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Supported languages

Deno	JavaScript	NodeJS	Python	Ruby	Go
C	C++	Java	C#	TypeScript	PHP
Bash	R	Octave (MATLAB)	Fortran	Lua	Erlang
SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



Run

Save

```

1 # ----- FACTORS -----
2 # Create and customize a factor
3 music_genre <- factor(
4   c("Jazz", "Rock", "Classic", "Classic", "Pop", "Jazz")
5   levels = c("Classic", "Jazz", "Pop", "Rock", "Opera")
6 )
7
8 # Access and modify factor
9 music_genre[3] <- "Opera" # Changing value at index 3
10 print(music_genre)
11 print(levels(music_genre))
12 print(length(music_genre))
13
14 # ----- PLOTTING POINTS -----
15 # Vectors of coordinates
16 x <- c(1, 2, 3, 4, 5)
17 y <- c(3, 7, 8, 9, 12)
18
19 # Scatter plot with customizations
20 plot(x, y,
21       main = "Custom Plot: Points & Lines",
22       xlab = "X Axis", ylab = "Y Axis",
23       col = "darkgreen", cex = 1.5, pch = 19)
24
25 # ----- LINE PLOTS -----
26 # Line data
27 line1 <- c(1, 2, 3, 4, 5, 10)
28 line2 <- c(2, 5, 7, 8, 9, 10)
29
30 # Line plot with styles
31 plot(line1, type = "l", col = "blue", lwd = 2, lty = 2,
32       main = "Line Graph with Multiple Lines",
33       xlab = "Index", ylab = "Values")
34
35 # Add second line
36 lines(line2, type = "l", col = "red", lwd = 3, lty = 3)
37
38 # Add legend
39 legend("topleft",
40         legend = c("Line 1", "Line 2"),

```

Program input

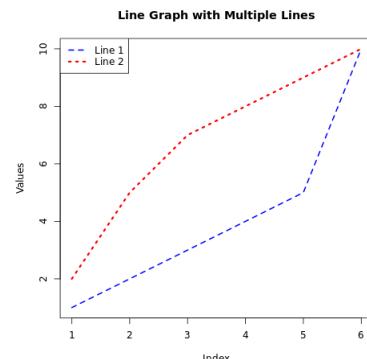
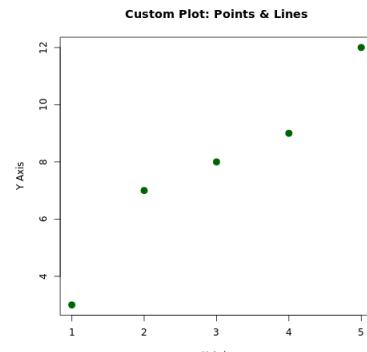
Output

```

[1] Jazz      Rock      Opera
Levels: Classic Jazz Pop Ro
[1] "Classic" "Jazz"    "Po
[1] 8

```

[Execution complete with ex



```
41      col = c("blue", "red"),  
42      lty = c(2, 3),  
43      lwd = c(2, 3))  
44
```



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HOSTING CARBON

Supported languages

Deno	JavaScript	NodeJS	Python	Ruby	Go
C	C++	Java	C#	TypeScript	PHP
Bash	R	Octave (MATLAB)	Fortran	Lua	Erlang
SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R

R ▾



▶ Run

Save

```

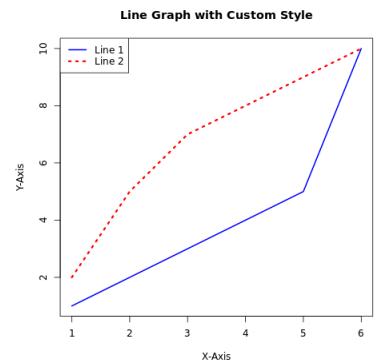
1 # Create sample data
2 line1 <- c(1, 2, 3, 4, 5, 10)
3 line2 <- c(2, 5, 7, 8, 9, 10)
4
5 # Basic Line Graph
6 plot(line1, type = "l", col = "blue", lwd = 2, lty = 1,
7       main = "Line Graph with Custom Style",
8       xlab = "X-Axis", ylab = "Y-Axis")
9
10 # Add another line
11 lines(line2, type = "l", col = "red", lwd = 3, lty = 3)
12
13 # Optional: Add legend
14 legend("topleft",
15         legend = c("Line 1", "Line 2"),
16         col = c("blue", "red"),
17         lty = c(1, 3),
18         lwd = c(2, 3))
19

```

Program input

Output

[Execution complete with ex



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ADDITIONAL CARBON



myCompiler

R

R

Run

Save

```

1 # Basic Points
2 plot(1, 3, main="Single Point Plot")
3
4 # Multiple Points with Coordinates
5 plot(c(1, 8), c(3, 10), main="Two Points Plot")
6
7 # Plotting with Vectors
8 x <- c(1, 2, 3, 4, 5)
9 y <- c(3, 7, 8, 9, 12)
10 plot(x, y, main="Multiple Points Using Vectors")
11
12 # Sequence Plot (Only x-axis provided, y = x)
13 plot(1:10, main="Sequence Plot")
14
15 # Line Plot
16 plot(1:10, type="l", main="Line Plot")
17
18 # Custom Titles and Axis Labels
19 plot(1:10, main="My Graph", xlab="The x-axis", ylab="The
20
21 # Colored Points
22 plot(1:10, col="red", main="Colored Points")
23
24 # Larger Points
25 plot(1:10, cex=2, main="Larger Points")
26
27 # Custom Point Shape
28 plot(1:10, pch=25, c
29

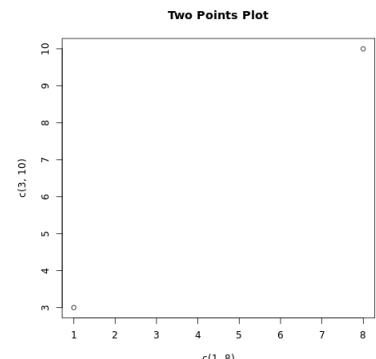
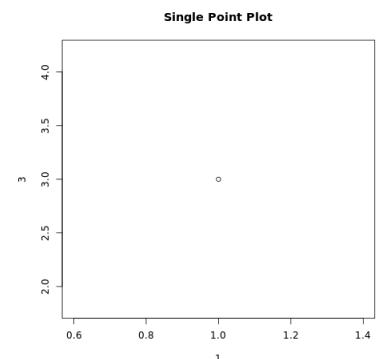
```

Program input

Output

Error: unexpected end of
Execution halted

[Execution complete with





myCompiler

R



```

1 #-----
2 # R DATA FRAMES - CREATION AND OPERATIONS
3 #-----
4
5 # Create a data frame
6 Data_Frame <- data.frame(
7   Training = c("Strength", "Stamina", "Other"),
8   Pulse = c(100, 150, 120),
9   Duration = c(60, 30, 45)
10 )
11
12 # Print the data frame
13 print("Original Data Frame:")
14 print(Data_Frame)
15
16 #-----
17 # SUMMARIZE THE DATA
18 #-----
19 print("Summary of Data Frame:")
20 print(summary(Data_Frame))
21
22 #-----
23 # ACCESS ITEMS
24 #-----
25 print("Access column using [ ]:")
26 print(Data_Frame[1])
27
28 print("Access column using [[ ]] :")
29 print(Data_Frame[["Training"]])
30
31 print("Access column using $ :")
32 print(Data_Frame$Training)
33
34 #-----
35 # ADD ROWS
36 #-----
37 New_row_DF <- rbind(Data_Frame, c("Strength", 110, 110, 110))
38 print("Data Frame after adding a new row:")
39 print(New_row_DF)
40

```

Program input

Output

```

[1] "Original Data Frame:"
  Training Pulse Duration
1 Strength    100      60
2 Stamina     150      30
3 Other        120      45
[1] "Summary of Data Frame:
  Training          Pul
Length:3          Min.
Class :character  1st Qu.
Mode  :character  Median
                           Mean
                           3rd Qu.
                           Max.
[1] "Access column using [
  Training
1 Strength
2 Stamina
3 Other
[1] "Access column using [[
[1] "Strength" "Stamina" "
[1] "Access column using $"
[1] "Strength" "Stamina" "
[1] "Data Frame after addin
  Training Pulse Duration
1 Strength    100      60
2 Stamina     150      30
3 Other        120      45
4 Strength    110      110
[1] "Data Frame after addin
  Training Pulse Duration S
1 Strength    100      60
2 Stamina     150      30

```

```

41 #-----
42 # ADD COLUMNS
43 #-----
44 New_col_DF <- cbind(Data_Frame, Steps = c(1000, 6000,
45 print("Data Frame after adding a new column:")
46 print(New_col_DF)
47
48 #-----
49 # REMOVE ROWS AND COLUMNS
50 #-----
51 Data_Frame_New <- Data_Frame[-c(1), -c(1)]
52 print("Data Frame after removing first row and column:")
53 print(Data_Frame_New)
54
55 #-----
56 # AMOUNT OF ROWS AND COLUMNS
57 #-----
58 print("Dimensions (rows, columns):")
59 print(dim(Data_Frame))
60
61 print("Number of columns:")
62 print(ncol(Data_Frame))
63
64 print("Number of rows:")
65 print(nrow(Data_Frame))
66
67 #-----
68 # DATA FRAME LENGTH
69 #-----
70 print("Length of Data Frame (number of columns):")
71 print(length(Data_Frame))
72
73 #-----
74 # COMBINE DATA FRAMES VERTICALLY
75 #-----
76 Data_Frame1 <- data.frame(
77   Training = c("Strength", "Stamina", "Other"),
78   Pulse = c(100, 150, 120),
79   Duration = c(60, 30, 45)
80 )
81
82 Data_Frame2 <- data.frame(
83   Training = c("Stamina", "Stamina", "Strength"),
84   Pulse = c(140, 150, 160),
85   Duration = c(30, 30, 20)
86 )
87
88 New_Data_Frame <- rbind(Data_Frame1, Data_Frame2)
89 print("Combined Data Frame (Vertical):")
90 print(New_Data_Frame)

```

```

3   Other    120      45
[1] "Data Frame after remov
Pulse Duration
2   150      30
3   120      45
[1] "Dimensions (rows, colu
[1] 3 3
[1] "Number of columns:"
[1] 3
[1] "Number of rows:"
[1] 3
[1] "Length of Data Frame (
[1] 3
[1] "Combined Data Frame (V
Training Pulse Duration
1 Strength   100      60
2 Stamina    150      30
3   Other    120      45
4   Stamina   140      30
5   Stamina   150      30
6 Strength   160      20
Error: unexpected end of in
Execution halted

```

[Execution complete with ex

```

91
92 #-----
93 # COMBINE DATA FRAMES HORIZONTALLY
94 #-----
95 Data_Frame3 <- data.frame(
96   Training = c("Strength", "Stamina", "Other"),
97   Pulse = c(100, 150, 120),
98   Duration = c(60, 30, 45)
99 )
100
101 Data_Frame4 <- data.frame(
102   Steps = c(3000, 6000, 2000),
103   Calories = c(300, 400, 300)
104 )
105
106 New_Data_Frame1 <- cbind(Data_Frame3_
107

```



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SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



```

1 #-----
2 # R DATA FRAMES - CREATION AND OPERATIONS
3 #-----
4
5 # Create a data frame
6 Data_Frame <- data.frame(
7   Training = c("Strength", "Stamina", "Other"),
8   Pulse = c(100, 150, 120),
9   Duration = c(60, 30, 45)
10 )
11
12 # Print the data frame
13 print("Original Data Frame:")
14 print(Data_Frame)
15
16 #-----
17 # SUMMARIZE THE DATA
18 #-----
19 print("Summary of Data Frame:")
20 print(summary(Data_Frame))
21
22 #-----
23 # ACCESS ITEMS
24 #-----
25 print("Access column using [ ]:")
26 print(Data_Frame[1])
27
28 print("Access column using [[ ]] :")
29 print(Data_Frame[["Training"]])
30
31 print("Access column using $ :")
32 print(Data_Frame$Training)
33
34 #-----
35 # ADD ROWS
36 #-----
37 New_row_DF <- rbind(Data_Frame, c("Strength", 110, 110, 110))
38 print("Data Frame after adding a new row:")
39 print(New_row_DF)
40

```

Program input

Output

```

[1] "Original Data Frame:"
  Training Pulse Duration
1 Strength    100      60
2 Stamina     150      30
3 Other        120      45
[1] "Summary of Data Frame:
  Training          Pul
Length:3             Min.
Class :character    1st Qu.
Mode  :character    Median
                           Mean
                           3rd Qu.
                           Max.
[1] "Access column using [
  Training
1 Strength
2 Stamina
3 Other
[1] "Access column using [[
[1] "Strength" "Stamina" "
[1] "Access column using $"
[1] "Strength" "Stamina" "
[1] "Data Frame after addin
  Training Pulse Duration
1 Strength    100      60
2 Stamina     150      30
3 Other        120      45
4 Strength    110      110
[1] "Data Frame after addin
  Training Pulse Duration S
1 Strength    100      60
2 Stamina     150      30

```

```

41 #-----
42 # ADD COLUMNS
43 #-----
44 New_col_DF <- cbind(Data_Frame, Steps = c(1000, 6000,
45 print("Data Frame after adding a new column:")
46 print(New_col_DF)
47
48 #-----
49 # REMOVE ROWS AND COLUMNS
50 #-----
51 Data_Frame_New <- Data_Frame[-c(1), -c(1)]
52 print("Data Frame after removing first row and column:")
53 print(Data_Frame_New)
54
55 #-----
56 # AMOUNT OF ROWS AND COLUMNS
57 #-----
58 print("Dimensions (rows, columns):")
59 print(dim(Data_Frame))
60
61 print("Number of columns:")
62 print(ncol(Data_Frame))
63
64 print("Number of rows:")
65 print(nrow(Data_Frame))
66
67 #-----
68 # DATA FRAME LENGTH
69 #-----
70 print("Length of Data Frame (number of columns):")
71 print(length(Data_Frame))
72
73 #-----
74 # COMBINE DATA FRAMES VERTICALLY
75 #-----
76 Data_Frame1 <- data.frame(
77   Training = c("Strength", "Stamina", "Other"),
78   Pulse = c(100, 150, 120),
79   Duration = c(60, 30, 45)
80 )
81
82 Data_Frame2 <- data.frame(
83   Training = c("Stamina", "Stamina", "Strength"),
84   Pulse = c(140, 150, 160),
85   Duration = c(30, 30, 20)
86 )
87
88 New_Data_Frame <- rbind(Data_Frame1, Data_Frame2)
89 print("Combined Data Frame (Vertical):")
90 print(New_Data_Frame)

```

```

3   Other    120      45
[1] "Data Frame after remov
Pulse Duration
2   150      30
3   120      45
[1] "Dimensions (rows, colu
[1] 3 3
[1] "Number of columns:"
[1] 3
[1] "Number of rows:"
[1] 3
[1] "Length of Data Frame (
[1] 3
[1] "Combined Data Frame (V
Training Pulse Duration
1 Strength   100      60
2 Stamina    150      30
3   Other    120      45
4   Stamina   140      30
5   Stamina   150      30
6 Strength   160      20
Error: unexpected end of in
Execution halted

```

[Execution complete with ex

```
91  
92 #-----  
93 # COMBINE DATA FRAMES HORIZONTALLY  
94 #-----  
95 Data_Frame3 <- data.frame(  
96   Training = c("Strength", "Stamina", "Other"),  
97   Pulse = c(100, 150, 120),  
98   Duration = c(60, 30, 45)  
99 )  
100  
101 Data_Frame4 <- data.frame(  
102   Steps = c(3000, 6000, 2000),  
103   Calories = c(300, 400, 300)  
104 )  
105  
106 New_Data_Frame1 <- cbind(Data_Frame3_
```



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SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



```

1 #-----
2 # R ARRAYS - CREATION AND OPERATIONS
3 #-----
4
5 # Create a 1D array (vector from 1 to 24)
6 thisarray <- c(1:24)
7 print("1D Array:")
8 print(thisarray)
9
10 # Create a multidimensional array: 4 rows, 3 columns, 2 n
11 multiarray <- array(thisarray, dim = c(4, 3, 2))
12 print("Multi-dimensional Array (4x3x2):")
13 print(multiarray)
14
15 #-----
16 # ACCESS ARRAY ITEMS
17 #
18
19 # Access a single element [row, column, matrix]
20 print("Element at [2, 3, 2]:")
21 print(multiarray[2, 3, 2])
22
23 # Access all items from the first row of matrix 1
24 print("All items from Row 1 of Matrix 1:")
25 print(multiarray[c(1), , 1])
26
27 # Access all items from the first column of matrix 1
28 print("All items from Column 1 of Matrix 1:")
29 print(multiarray[, c(1), 1])
30
31 #
32 # CHECK IF AN ITEM EXISTS
33 #
34
35 # Check if a specific value exists in the array
36 print("Is value 2 present in the array?")
37 print(2 %in% multiarray)
38
39 #
40 # ARRAY DIMENSIONS AND LENGTH

```

Program input

Output

```

[1] "1D Array:"
[1] 1 2 3 4 5 6 7
[1] "Multi-dimensional Array"
[1] 1
[1,1] [,2] [,3]
[1,] 1 5 9
[2,] 2 6 10
[3,] 3 7 11
[4,] 4 8 12
[1,1] [,2] [,3]
[1,] 13 17 21
[2,] 14 18 22
[3,] 15 19 23
[4,] 16 20 24
[1] "Element at [2, 3, 2]"
[1] 22
[1] "All items from Row 1"
[1] 1 5 9
[1] "All items from Column 1"
[1] 1 2 3 4
[1] "Is value 2 present in the array?"
[1] TRUE
[1] "Dimensions (rows, columns, depth)"
[1] 4 3 2
[1] "Total number of elements"
[1] 24
[1] "Looping through array"

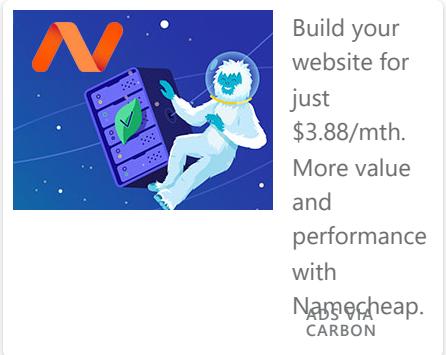
```

```

41 #-----[1] 1
42 [1] 2
43 # Get dimensions (rows, columns, matrices)[1] 3
44 print("Dimensions (rows, columns, matrices):") [1] 4
45 print(dim(multiarray)) [1] 5
46 [1] 6
47 # Get total number of elements [1] 7
48 print("Total number of elements in array:") [1] 8
49 print(length(multiarray)) [1] 9
50 [1] 10
51 #-----[1] 11
52 # LOOP THROUGH AN ARRAY [1] 12
53 #-----[1] 13
54 [1] 14
55 print("Looping through array items:") [1] 15
56 for (x in multiarray) { [1] 16
57   print(x) [1] 17
58 } [1] 18
59 [1] 19
[1] 20
[1] 21
[1] 22
[1] 23
[1] 24

```

[Execution complete with



Supported languages

Deno	JavaScript	NodeJS	Python	Ruby	Go
C	C++	Java	C#	TypeScript	PHP
Bash	R	Octave	Fortran	Lua	Erlang
		(MATLAB)			

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myCompiler

R

R

Run

Save

```

1 #-----
2 # MATRIX CREATION
3 #-----
4
5 # Numeric matrix
6 thismatrix <- matrix(c(1, 2, 3, 4, 5, 6), nrow = 3, nc
7 print("Numeric Matrix:")
8 print(thismatrix)
9
10 # String matrix
11 thismatrix <- matrix(c("apple", "banana", "cherry", "c
12 print("String Matrix:")
13 print(thismatrix)
14
15 #-----
16 # ACCESS MATRIX ITEMS
17 #-----
18
19 # Access single item
20 print("Item at [1, 2]:")
21 print(thismatrix[1, 2])
22
23 # Access whole row
24 print("Second Row:")
25 print(thismatrix[2, ])
26
27 # Access whole column
28 print("Second Column:")
29 print(thismatrix[, 2])
30
31 # Access more than one row
32 thismatrix <- matrix(c("apple", "banana", "cherry", "c
33 print("First and Second Rows:")
34 print(thismatrix[c(1, 2), ])
35
36 # Access more than one column
37 print("First and Second Columns:")
38 print(thismatrix[, c(1, 2)])
39
40 #-----
```

Program input

Output

```

[1] "Numeric Matrix:"
[1,] [,2]
[1,]     1     4
[2,]     2     5
[3,]     3     6
[1] "String Matrix:"
[1,] [,2]
[1,] "apple"  "cherry"
[2,] "banana" "orange"
[1] "Item at [1, 2]:"
[1] "cherry"
[1] "Second Row:"
[1] "banana" "orange"
[1] "Second Column:"
[1] "cherry" "orange"
[1] "First and Second Rows:"
[1,] [,2] [,3]
[1,] "apple" "orange" "pea"
[2,] "banana" "grape"  "mel
[1] "First and Second Colum
[1,] [,2]
[1,] "apple" "orange"
[2,] "banana" "grape"
[3,] "cherry" "pineapple"
[1] "Matrix After Adding Co
[1,] [,2]
[1,] "apple" "orange"
[2,] "banana" "grape"
[3,] "cherry" "pineapple"
[1] "Matrix After Adding Ro
[1,] [,2]
[1,] "apple" "orange"
```

```

41 # ADD ROWS AND COLUMNS
42 #-----
43
44 # Add column
45 newmatrix_col <- cbind(thismatrix, c("strawberry", "blueberry"))
46 print("Matrix After Adding Column:")
47 print(newmatrix_col)
48
49 # Add row
50 newmatrix_row <- rbind(thismatrix, c("strawberry", "blueberry"))
51 print("Matrix After Adding Row:")
52 print(newmatrix_row)
53
54 #-----
55 # REMOVE ROWS AND COLUMNS
56 #-----
57
58 thismatrix <- matrix(c("apple", "banana", "cherry", "orange", "mango"), nrow = 2, ncol = 5)
59 thismatrix <- thismatrix[-c(1), -c(1)]
60 print("Matrix After Removing First Row and First Column")
61 print(thismatrix)
62
63 #-----
64 # CHECK IF ITEM EXISTS
65 #-----
66
67 thismatrix <- matrix(c("apple", "banana", "cherry", "orange", "mango", "watermelon"), nrow = 2, ncol = 5)
68 print("Check if 'apple' Exists:")
69 print("apple" %in% thismatrix)
70
71 #-----
72 # ROWS, COLUMNS AND LENGTH
73 #-----
74
75 print("Matrix Dimensions (rows, columns):")
76 print(dim(thismatrix))
77
78 print("Total Number of Elements:")
79 print(length(thismatrix))
80
81 #-----
82 # LOOP THROUGH MATRIX
83 #-----
84
85 print("Loop Through Matrix Items:")
86 for (rows in 1:nrow(thismatrix)) {
87   for (columns in 1:ncol(thismatrix)) {
88     print(thismatrix[rows, columns])
89   }
90 }
```

```

[2,] "banana"      "grape"
[3,] "cherry"       "pineappl
[4,] "strawberry"   "blueberr
[1] "Matrix After Removing
[1] "mango"        "pineapple"
[1] "Check if 'apple' Exist
[1] TRUE
[1] "Matrix Dimensions (row
[1] 2 2
[1] "Total Number of Elemen
[1] 4
[1] "Loop Through Matrix It
[1] "apple"
[1] "cherry"
[1] "banana"
[1] "orange"
[1] "Combined Matrix (Rows)
[ ,1]      [ ,2]
[1,] "apple"    "cherry"
[2,] "banana"   "grape"
[3,] "orange"   "pineapple"
[4,] "mango"    "watermelon"
[1] "Combined Matrix (Colum
[ ,1]      [ ,2]      [ ,3]
[1,] "apple"    "cherry"  "ora
[2,] "banana"   "grape"   "man
```

[Execution complete with ex]

```

91
92 #-----
93 # COMBINE MATRICES
94 #-----
95
96 Matrix1 <- matrix(c("apple", "banana", "cherry", "grap
97 Matrix2 <- matrix(c("orange", "mango", "pineapple", "w
98
99 # Combine as rows
100 Matrix_Combined_Row <- rbind(Matrix1, Matrix2)
101 print("Combined Matrix (Rows):")
102 print(Matrix_Combined_Row)
103
104 # Combine as columns
105 Matrix_Combined_Col <- cbind(Matrix1, Matrix2)
106 print("Combined Matrix (Columns):")
107 print(Matrix_Combined_Col)
108
109

```



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SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



```
1 # --- Creating Vectors ---
2
3 # Vector of strings
4 fruits <- c("banana", "apple", "orange")
5 print(fruits)
6
7 # Vector of numbers
8 numbers <- c(1, 2, 3)
9 print(numbers)
10
11 # Sequence of numbers using :
12 numbers_seq <- 1:10
13 print(numbers_seq)
14
15 # Decimal sequences using :
16 numbers1 <- 1.5:6.5
17 print(numbers1)
18
19 numbers2 <- 1.5:6.3
20 print(numbers2)
21
22 # Vector of logical values
23 log_values <- c(TRUE, FALSE, TRUE, FALSE)
24 print(log_values)
25
26
27 # --- Vector Length ---
28 print(length(fruits))
29
30
31 # --- Sorting Vectors ---
32 fruits <- c("banana", "apple", "orange", "mango", "lemon")
33 numbers <- c(13, 3, 5, 7, 20, 2)
34
35 print(sort(fruits)) # Alphabetical
36 print(sort(numbers)) # Numerical
37
38
39 # --- Accessing Elements ---
40 # Access by index
```

Program input

Output

```
[1] "banana" "apple" "orange"
[1] 1 2 3
[1] 1 2 3 4 5 6 7
[1] 1.5 2.5 3.5 4.5 5.5 6.5
[1] 1.5 2.5 3.5 4.5 5.5
[1] TRUE FALSE TRUE FALSE
[1] 3
[1] "apple" "banana" "lemon"
[1] 2 3 5 7 13 20
[1] "banana"
[1] "banana" "orange"
[1] "apple" "orange" "mango"
[1] "pear" "apple" "orange"
[1] 1 1 1 2 2 2 3 3 3
[1] 1 2 3 1 2 3 1 2 3
[1] 1 1 1 1 1 2 2 3
[1] 0 20 40 60 80 100
```

[Execution complete with exit status 0]

```

41 print(fruits[1])          # First element
42 print(fruits[c(1, 3)])    # First and third element
43 print(fruits[-1])         # All except first element
44
45
46 # --- Modifying Elements ---
47 fruits[1] <- "pear"       # Change banana to pear
48 print(fruits)
49
50
51 # --- Repeating Vectors ---
52 repeat_each <- rep(c(1, 2, 3), each = 3)
53 print(repeat_each)
54
55 repeat_times <- rep(c(1, 2, 3), times = 3)
56 print(repeat_times)
57
58 repeat_indepent <- rep(c(1, 2, 3), times = c(5, 2, 1))
59 print(repeat_indepent)
60
61
62 # --- Generating Sequences with Custom Steps ---
63 numbers <- seq(from = 0, to = 100, by = 20)
64 print(numbers)
65
66

```



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SQL	MySQL	MongoDB	Clojure	D	Perl
Kotlin	Swift	Rust	Assembly		



myCompiler

R



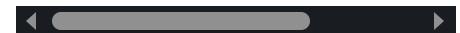
```
1 # Example 1: Global variable used inside a function
2 txt <- "awesome" # Global variable
3
4 my_function1 <- function() {
5   paste("R is", txt)
6 }
7
8 print(my_function1()) # Output: "R is awesome"
9
10 # Example 2: Local variable with same name doesn't affect global variable
11 txt <- "global variable" # Reset global variable
12
13 my_function2 <- function() {
14   txt <- "fantastic" # Local variable
15   paste("R is", txt)
16 }
17
18 print(my_function2()) # Output: "R is fantastic"
19 print(txt) # Output: "global variable" (unchanged)
20
21 # Example 3: Creating a global variable using <<-
22 my_function3 <- function() {
23   txt2 <<- "fantastic" # Creates new global variable
24   paste("R is", txt2)
25 }
26
27 print(my_function3()) # Output: "R is fantastic"
28 print(txt2) # Output: "fantastic"
29
30 # Example 4: Modifying an existing global variable using <<-
31 txt <- "awesome" # Reset global variable
32
33 my_function4 <- function() {
34   txt <<- "fantastic" # Modify existing global variable
35   paste("R is", txt)
36 }
37
38 print(my_function4()) # Output: "R is fantastic"
39 print(paste("R is", txt)) # Output: "R is fantastic"
40
```

Program input

Output

```
[1] "R is awesome"
[1] "R is fantastic"
[1] "global variable"
[1] "R is fantastic"
[1] "fantastic"
[1] "R is fantastic"
[1] "R is fantastic"
```

```
[Execution complete with ex]
```



Supported languages						
Deno	JavaScript	NodeJS	Python	R	TypeScript	
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Bash	R	Octave (MATLAB)	Fortran	Lua	Erlang	
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```
# 1. Calling a function within another function
Nested_function <- function(x, y) {
  a <- x + y
  return(a)
}

# Call: (2 + 2) + (3 + 3) = 10
print(Nested_function(Nested_function(2, 2), Nested_function(3, 3)))
# Output: 10

# 2. Defining a function inside another function
Outer_func <- function(x) {
```

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```
[1] 10
[1] 8
```

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```
print(my_function("Sweden")) # Output: "I am from Sweden"
print(my_function("India")) # Output: "I am from India"
print(my_function()) # Output: "I am from Norway"
print(my_function("USA")) # Output: "I am from USA"

# 5. Function with Return Value
my_function <- function(x) {
  return(5 * x)
}
print(my_function(3)) # Output: 15
print(my_function(5)) # Output: 25
print(my_function(9)) # Output: 45
```

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```
[1] "Hello World!"
[1] "Peter Griffin"
[1] "Lois Griffin"
[1] "Stewie Griffin"
[1] "Peter Griffin"
[1] "I am from Sweden"
[1] "I am from India"
[1] "I am from Norway"
[1] "I am from USA"
[1] 15
[1] 25
[1] 45
```

Snippets

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```
# Define two lists
adj <- list("red", "big", "tasty")
fruits <- list("apple", "banana", "cherry")

# Nested for loop
for (x in adj) {
  for (y in fruits) {
    print(paste(x, y))
  }
}
```

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```
[1] "red apple"
[1] "red banana"
[1] "red cherry"
[1] "big apple"
[1] "big banana"
[1] "big cherry"
[1] "tasty apple"
[1] "tasty banana"
[1] "tasty cherry"
```

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```
cat("-----\n")

# If...Else inside For Loop: Yahtzee example
dice <- 1:6
for (x in dice) {
  if (x == 6) {
    print(paste("The dice number is", x, "Yahtzee!"))
  } else {
    print(paste("The dice number is", x, "Not Yahtzee"))
  }
}
```

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```
[1] 1
[1] 2
[1] 3
[1] 4
[1] 5
[1] 6
[1] 7
[1] 8
[1] 9
[1] 10
-----
[1] "apple"
[1] "banana"
[1] "cherry"
```

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```
[1] 2  
[1] 3  
[1] 4  
[1] 5  
[1] 6  
-----  
[1] "apple"  
[1] "banana"  
-----  
[1] "apple"  
[1] "cherry"  
-----  
[1] "The dice number is 1 Not Yahtzee"  
[1] "The dice number is 2 Not Yahtzee"  
[1] "The dice number is 3 Not Yahtzee"  
[1] "The dice number is 4 Not Yahtzee"  
[1] "The dice number is 5 Not Yahtzee"  
[1] "The dice number is 6 Yahtzee!"
```

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