RWorkSheets_Barrientos#1

BARRIENTOS, MILFRANCE D.

2024-09-04

```
1.
age \leftarrow c(34, 28, 22, 36, 27, 18, 52, 39, 42, 29,
35, 31, 27, 22, 37, 34, 19, 20, 57, 49, 50, 37, 46, 25, 17, 37, 42, 53, 41, 51, 35, 24, 33, 41.)
length (age)
## [1] 34
age \leftarrow c(34, 28, 22, 36, 27, 18, 52, 39, 42, 29,
35, 31, 27, 22, 37, 34, 19, 20, 57, 49, 50, 37, 46, 25, 17, 37, 42, 53, 41, 51, 35, 24, 33, 41.)
  2.
reciprocal <- 1 / age
print (reciprocal)
## [1] 0.02941176 0.03571429 0.04545455 0.02777778 0.03703704 0.05555556
## [7] 0.01923077 0.02564103 0.02380952 0.03448276 0.02857143 0.03225806
## [13] 0.03703704 0.04545455 0.02702703 0.02941176 0.05263158 0.05000000
## [19] 0.01754386 0.02040816 0.02000000 0.02702703 0.02173913 0.04000000
## [25] 0.05882353 0.02702703 0.02380952 0.01886792 0.02439024 0.01960784
## [31] 0.02857143 0.04166667 0.03030303 0.02439024
  3.
new_age <- c(age,0,age)</pre>
print (new age)
## [1] 34 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17
## [26] 37 42 53 41 51 35 24 33 41 0 34 28 22 36 27 18 52 39 42 29 35 31 27 22 37
## [51] 34 19 20 57 49 50 37 46 25 17 37 42 53 41 51 35 24 33 41
What Happen to the new_age?
4
sort(age)
## [1] 17 18 19 20 22 22 24 25 27 27 28 29 31 33 34 34 35 35 36 37 37 37 39 41 41
## [26] 42 42 46 49 50 51 52 53 57
sort (age)
## [1] 17 18 19 20 22 22 24 25 27 27 28 29 31 33 34 34 35 35 36 37 37 37 39 41 41
## [26] 42 42 46 49 50 51 52 53 57
5
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```
min (age)
## [1] 17
print (age)
## [1] 34 28 22 36 27 18 52 39 42 29 35 31 27 22 37 34 19 20 57 49 50 37 46 25 17
## [26] 37 42 53 41 51 35 24 33 41
max (age)
## [1] 57
data \leftarrow c(2.4, 2.8, 2.1, 2.5, 2.4, 2.2, 2.5,
         2.3, 2.5, 2.3, 2.4, 2.7)
print(data)
## [1] 2.4 2.8 2.1 2.5 2.4 2.2 2.5 2.3 2.5 2.3 2.4 2.7
length(data)
## [1] 12
data \leftarrow c(2.4, 2.8, 2.1, 2.5, 2.4, 2.2, 2.5,
          2.3, 2.5, 2.3, 2.4, 2.7)
data <- data * 2
print (data)
## [1] 4.8 5.6 4.2 5.0 4.8 4.4 5.0 4.6 5.0 4.6 4.8 5.4
8.1
sequence \leftarrow seq (1,100)
print (sequence)
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   [73]
## [91] 91 92 93 94 95
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8.2
sequence <- seq (20, 60)
print (sequence)
## [1] 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
## [26] 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
8.3
sequence \leftarrow seq (20, 60)
mean_value <- mean(sequence)</pre>
mean_value
## [1] 40
```

8.4

```
sequence \leftarrow seq(51, 91)
sum value <- sum(sequence)</pre>
sum_value
## [1] 2911
8.5
int1to1000q < - seq(1, 1000)
int1to1000q
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  9.
filter <- Filter(function(i) { all(i %% c(3, 5, 7) != 0) }, seq(1, 100))
print(filter)
         1 2 4 8 11 13 16 17 19 22 23 26 29 31 32 34 37 38 41 43 44 46 47 52 53
## [26] 58 59 61 62 64 67 68 71 73 74 76 79 82 83 86 88 89 92 94 97
 10.
sequence_backwards <- rev (seq(1,100))</pre>
print (sequence_backwards)
##
     [1] 100
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 11.
multiples <- Filter(function(i) { i \% 3 == 0 | | i \% 5 == 0 }, seq(1, 24))
sum multiples <- sum(multiples)</pre>
multiples
    [1] 3 5 6 9 10 12 15 18 20 21 24
```

```
sum_multiples
## [1] 143
12.
```

The statement will not immediately print it because the expression is incomplete.

```
13.
score <- c(72, 86, 92, 63, 88, 89, 91, 92, 75, 75, 77)
x2 <- score[2]
x3 <- score[3]
print(x2)
## [1] 86
print(x3)
## [1] 92
 14.
 15.
name = readline(prompt="Input your name: ")
## Input your name:
age = readline(prompt="Input your age: ")
## Input your age:
print(paste("My name is", name, "and I am", age, "years old."))
## [1] "My name is and I am years old."
print(R.version.string)
## [1] "R version 4.4.1 (2024-06-14)"
```