## RWorksheet\_Francisco#1

## Enrique Francisco

2024-09-20

```
#1.
age <- 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,
length(age)
## [1] 34
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
\#b1.the code-age <- 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.) #b2.the output- num [1:34] 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
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
\#[11] 0.02857143 0.03225806 0.03703704 0.04545455 0.02702703 \#[21] 0.02000000 0.02702703 0.02173913
0.04000000\ 0.05882353\ \#[26]\ 0.02702703\ 0.02380952\ 0.01886792\ 0.02439024\ 0.01960784\ \#[31]\ 0.02857143
0.04166667\ 0.03030303\ 0.02439024
new_age <- c(age, 0, age)</pre>
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
#It repeats the output of "age" twice with "0" in between them
#4.
sorted_age <- sort(age)</pre>
sorted_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
\#[1] 17 18 19 20 22 22 24 25 27 27 28 29 31 33 34 34 35 35 36 37 37[22] 37 39 41 41 42 42 46 49 50 51 52 53 57
#5.
min(age)
## [1] 17
max(age)
## [1] 57
min(age)[1] 17
max(age)[1] 57
#6.
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)
length(data)
## [1] 12
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
\#a. There are 12 data points \#b. data <- 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: \#[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
#7.
doubled_data <- data * 2</pre>
doubled_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
#The value of every numbers in "data" doubled.
#8.1
seq_1_100 <- 1:100
seq_1_100
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##
   [91]
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#8.2
seq_20_60 <- 20:60
seq_20_60
## [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
```

```
mean_seq <- mean(seq_20_60)</pre>
mean_seq
## [1] 40
#8.4
num <- 51:91
sum num <- sum(51:91)
sum_num
## [1] 2911
#8.5
seq_1_1000 <- 1:1000
seq_1_1000
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                                                            975
                                                                  976
                                                                        977
                                                                              978
                                                                                    979
                                                                                          980
##
    [981]
             981
                   982
                         983
                               984
                                     985
                                          986
                                                987
                                                      988
                                                            989
                                                                  990
                                                                        991
                                                                              992
                                                                                    993
                                                                                          994
    [995]
             995
                              998
                                    999 1000
##
                   996
                        997
```

#A.143 data points #B.[27] 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 #[53] 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 #[79] 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

#[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 45 46 47 48 49 50 51 52 53 54 #[36] 55 56 57 58 59 60

#[1] 40

#[1] 2911 #C.The maximum data points until 10 is only 10

#9.

```
integers <- 1:100
Filter(function(i) { all(i %% c(3,5,7) != 0) }, seq(100))</pre>
```

## [1] 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

#[1] 1 2 4 8 11 13 16 17 19 22 23 26 29 31 32 34 37 38 41 43 44 #[22] 46 47 52 53 58 59 61 62 64 67 68 71 73 74 76 79 82 83 86 88 89 #[43] 92 94 97

#10.

```
backward_sequence <- seq(from=100, to=1, by= -1)</pre>
backward_sequence
      [1] 100
                99
                     98
                                   95
                                                 92
                                                      91
                                                          90
                                                               89
                                                                    88
                                                                         87
                                                                             86
                                                                                  85
                                                                                       84
                                                                                           83
##
                         97
                              96
                                        94
                                            93
##
    Γ19٦
           82
                81
                     80
                         79
                              78
                                   77
                                       76
                                            75
                                                 74
                                                      73
                                                          72
                                                               71
                                                                    70
                                                                         69
                                                                             68
                                                                                  67
                                                                                       66
                                                                                            65
##
    [37]
           64
                63
                     62
                         61
                              60
                                   59
                                        58
                                            57
                                                 56
                                                      55
                                                          54
                                                               53
                                                                    52
                                                                         51
                                                                             50
                                                                                  49
                                                                                       48
                                                                                            47
##
    [55]
           46
                45
                     44
                         43
                              42
                                   41
                                        40
                                            39
                                                 38
                                                      37
                                                          36
                                                               35
                                                                    34
                                                                         33
                                                                             32
                                                                                  31
                                                                                       30
                                                                                           29
                         25
##
    [73]
           28
                27
                     26
                              24
                                   23
                                        22
                                            21
                                                 20
                                                      19
                                                           18
                                                               17
                                                                    16
                                                                        15
                                                                             14
                                                                                  13
                                                                                       12
                                                                                           11
           10
    [91]
                           7
                               6
                                    5
                                              3
                                                  2
##
                 9
                      8
                                         4
                                                       1
\#[1] 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 \#[16] 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 \#[31]
70\ 69\ 68\ 67\ 66\ 65\ 64\ 63\ 62\ 61\ 60\ 59\ 58\ 57\ 56\ \#[46]\ 55\ 54\ 53\ 52\ 51\ 50\ 49\ 48\ 47\ 46\ 45\ 44\ 43\ 42\ 41\ \#[61]\ 40\ 39
38\ 37\ 36\ 35\ 34\ 33\ 32\ 31\ 30\ 29\ 28\ 27\ 26\ \#[76]\ 25\ 24\ 23\ 22\ 21\ 20\ 19\ 18\ 17\ 16\ 15\ 14\ 13\ 12\ 11\ \#[91]\ 10\ 9\ 8\ 7\ 6\ 5
4321
#11.
natural_numbers <- 1:24</pre>
natural_numbers_answer <- natural_numbers[natural_numbers %% 3 == 0 | natural_numbers %% 5 == 0]
natural_numbers_answer
## [1] 3 5 6 9 10 12 15 18 20 21 24
#[1] 3 5 6 9 10 12 15 18 20 21 24
#12. \#x < \{0 + x + 5 + \} #There was an error on the code, there's no initialized value on the "x", and
the incorrect use of curly braces.
#13.
score < c(72, 86, 92, 63, 88, 89, 91, 92, 75, 75, 77) score 2 < -score [2] score 2 score 3 < -score [3] score 3
#[1] 86 #[1] 92
\#14. a = c(1,2,NA,4,NA,6,7) print(a,na.print="-999") \#a = c(1,2,NA,4,NA,6,7), print(a,na.print="-999")
#[1] 1 2 -999 4 -999 6 7 #By changing the NA into -999 the value on output also changed
#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)"
#"My name is Enrique and I am 20 years old."
```