5. Problem Statement

1. Create the vectors

(a) (2, 3, … , 29, 30)

(b) (30, 29, … , 2)

(c) (1, 2, 3, …. , 29, 30, 29, 28, , 2, 1)

(d) (4, 6, 3) and assign it to the name dev.

For parts (e), (f) and (g)

e) (5, 6, 7, 5, 6, 7, , 5, 6, 7) where there are 10 occurrences of 5.

(f) (5, 6, 7, 5, 6, 7, , 5, 6, 7, 5) where there are 11 occurrences of 5, 10 occurrences of 6 and 10 occurrences of 7.

(g) (4, 4, , 4, 6, 6, , 6, 3, 3, , 3) where there are 10 occurrences of 4, 20 occurrences of 6 and 30 occurrences of 3.

Answer 1.

1. To create a vector with name v.

v<-c(2:30)

v

Output -

[1] 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

[26] 27 28 29 30

Answer 2

1. To create a vector with name v1.

V1<-c(30:2)

V1

Output is –

[1] 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6

[26] 5 4 3 2

Answer 3

( c) To create a vector with name v2 (1, 2, 3, …. , 29, 30, 29, 28, , 2, 1)

Answer 3

V2<-c(1:30,29:1)

V2

Output is –

[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

[26] 26 27 28 29 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10

[51] 9 8 7 6 5 4 3 2 1

Answer 4

d) (4, 6, 3) and assign it to the name dev.

To create a vector with name dev

Dev<-c(4,6,3)

Dev

Output is -- [1] 4 6 3

e) (5, 6, 7, 5, 6, 7, , 5, 6, 7) where there are 10 occurrences of 5.

Answer)

Assignment 14.2

Answer 4 a)

1. v<-paste("label", 1:10, Sep=" ")
2. v

Output ---

[1] "Label 1" "Label 2" "Label 3" "Label 4" "Label 5" "Label 6"

[7] "Label 7" "Label 8" "Label 9" "Label 10”

Answer 4 b)

1. v<-paste("fn", 1:30, Sep="")
2. v

Output is ---

[1] "fn1 " "fn2 " "fn3 " "fn4 " "fn5 " "fn6 " "fn7 " "fn8 "

[9] "fn9 " "fn10 " "fn11 " "fn12 " "fn13 " "fn14 " "fn15 " "fn16 "

[17] "fn17 " "fn18 " "fn19 " "fn20 " "fn21 " "fn22 " "fn23 " "fn24 "

[25] "fn25 " "fn26 " "fn27 " "fn28 " "fn29 " "fn30 "