

Unit 5 - Week 4 - Data management with repeats, sorting, ordering, and lists

Course outline
How to access the portal
Week 1 - Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments.
Week 2 - Use of R as a calculator, functions and matrix operations, missing data and logical operators.
Week 3 - Conditional executions and loops, data management with sequences.
Week 4 - Data management with repeats, sorting, ordering, and lists
<input type="radio"/> Lecture 18 - Data management : Lists
<input type="radio"/> Lecture 19 - Data management: Lists (continued)
<input type="radio"/> Lecture 20 - Data management : Vector indexing
<input type="radio"/> Lecture 21 - Data management : Vector Indexing (continued)
<input type="radio"/> Lecture 22 - Data management: Factors
<input type="radio"/> Lecture 23 - Data management: factors (continued)
<input checked="" type="radio"/> Quiz : Assignment 4
<input type="radio"/> Feedback Form
<input type="radio"/> Assignment 4 Solution
Week 5 - Vector indexing, factors, Data management with strings, display and formatting.
Week 6 - Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.
Week 7 - Data frames, import of external data in various file formats, statistical functions, compilation of data.
Week 8 - Graphics and plots, statistical functions for central tendency, variation, skewness and kurtosis, handling of bivariate data through graphics, correlations, programming and illustration with examples.
TEXT TRANSCRIPTS
DOWNLOAD VIDEOS
Live Session

Assignment 4

The due date for submitting this assignment has passed. **Due on 2019-09-25, 23:59 IST.**
As per our records you have not submitted this assignment.

- Which one of the following is the correct outcome of the command `sort(c(25,50,38,35,96,71,72,49,65,86))`, `decreasing = FALSE`? 1 point
 - [1] 1 4 3 8 2 9 6 7 10 5
 - [1] 5 10 7 6 9 2 8 3 4 1
 - [1] 25 35 38 49 50 65 71 72 86 96
 - [1] 96 86 72 71 65 50 49 38 35 25

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 25 35 38 49 50 65 71 72 86 96
- Which one of the following is the correct outcome of the command `sort(c(25,50,38,35,96,71,72,49,65,86))`, `decreasing = TRUE`? 1 point
 - [1] 1 4 3 8 2 9 6 7 10 5
 - [1] 5 10 7 6 9 2 8 3 4 1
 - [1] 25 35 38 49 50 65 71 72 86 96
 - [1] 96 86 72 71 65 50 49 38 35 25

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 96 86 72 71 65 50 49 38 35 25
- Which one of the following is the correct outcome of the command `order(c(25,50,38,35,96,71,72,49,65,86))`, `decreasing = FALSE`? 1 point
 - [1] 1 4 3 8 2 9 6 7 10 5
 - [1] 5 10 7 6 9 2 8 3 4 1
 - [1] 25 35 38 49 50 65 71 72 86 96
 - [1] 96 86 72 71 65 50 49 38 35 25

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 1 4 3 8 2 9 6 7 10 5
- Which one of the following is the correct outcome of the command `mode(c(100,230,"130",87+970,"740+90",18.7,10/5))`? 1 point
 - character
 - numeric
 - list
 - data frame

No, the answer is incorrect.
Score: 0
Accepted Answers: character
- Which one of the following is the correct outcome of the command `x[[2]]` where `x<-list(c("class1","class2","class3","class4"),seq(from=20,to=25),rep(30:37,each=2))`? 1 point
 - [1] "class1" "class2" "class3" "class4"
 - [1] 30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 37
 - [1] 20 21 22 23 24 25
 - [1] "class2" 52 30

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 20 21 22 23 24 25
- Which one of the following is the correct outcome of the command `x[[3]][2]` where `x<-list(c("class1","class2","class3","class4"),seq(from=20,to=25),rep(30:37,each=2))` gives an output as 1 point
 - [1] "class3"
 - [1] 30
 - [1] 31
 - [1] 30 30

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 30
- Which one of the following is the correct outcome of the command `x[[3]][2]` where `x<-list(c("class1","class2","class3","class4"),seq(from=20,to=25),rep(30:37,each=2))`? 1 point
 - "class3"
 - 22
 - 31
 - "NULL"

No, the answer is incorrect.
Score: 0
Accepted Answers: "NULL"
- Which one of the following is the correct outcome of the command `x[[3]]` where `x<-list(c("class1","class2","class3","class4"),seq(from=20,to=25),rep(30:37,each=2))`? 1 point
 - [1] "class1" "class2" "class3" "class4"
 - [1] 30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 37
 - [1] 20 21 22 23 24 25
 - [1] "class3",22,31

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 37
- Which one of the following is the correct outcome of the command `x[(x<50)]` where `x<-c(70,35,127,535,238,437,189,562,16,27,17,361,78,152,149,121,47,2,1,252)`? 1 point
 - [1] 35 16 27 17 47 2 1
 - [1] 70 127 535 238 437 189 562 361 78 152 149 121 252
 - [1] TRUE
 - [1] FALSE

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 35 16 27 17 47 2 1
- Which one of the following is the correct outcome of the command `x[(x + x^2 < 30)]` where `x<-c(20,65,27,55,38,37,18,52,160,237,170,61,88,52,49,12,4,24,18,22)`? 1 point
 - [1] 70 35 127 535 238 437 189 562 16 27 17 361 78 152 149 121 47 252
 - [1] 4
 - [1] NULL
 - [1] TRUE

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 4
- Which one of the following is the correct outcome of the command `order(x[(x^2 - 18*x > 300)])` where `x<-c(20,65,27,55,38,37,18,52,160,237,170,61,88,52,49,12,4,24,18,22)`? 1 point
 - [1] 2 14 1 10 13 3 12 11 7 5 15 9 6 4 8
 - [1] TRUE
 - [1] 4 3 12 5 11 2 9 1 10 6 8 7
 - [1] NULL

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 4 3 12 5 11 2 9 1 10 6 8 7
- If `y<-25:35` then which one of the following is the correct outcome of the command `y[-(3:10)]`? 1 point
 - [1] 35 26 25
 - [1] 25 26 35
 - [1] -35 -26 -25
 - [1] -25 -26 -35

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 25 26 35
- Consider the list `z<-list(x1="sections",x2=30:35)`. Which of the following is the correct command to change the name of element `x2` by numbers? 1 point
 - `names(z)[2]=numbers`
 - `names(z)[2]="numbers"`
 - `names(y)[2]="z2"`
 - `names(y)[2]=z2`

No, the answer is incorrect.
Score: 0
Accepted Answers: `names(z)[2]="numbers"`
- Consider the list `z<-list(x1="sections",x2=30:35)`. Which one of the following is the correct outcome of the command `z["x2"]`? 1 point
 - [1] "sections"
 - [1] "30:35"
 - [1] 35 34 33 32 31 30
 - [1] 30 31 32 33 34 35

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 30 31 32 33 34 35
- Which one of the following is the correct outcome of the command `factor(c(15,20,20,20,30,30,45,45,45,50,50,50,50))`? 1 point
 - [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 15 20 30 45 50
 - [1] 10 20 30 45 50
Levels: 10 20 30 45 50
 - [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 10 10 20 20 30 30
 - [1] 1 3 2 3 4
Levels: 10 10 20 20 30 30

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 15 20 30 45 50
- Which one of the following is the correct outcome of the following commands?
`data=c(15,20,20,20,30,30,45,45,45,50,50,50,50)`
`factor(data)`
`levels(data)=c('A','B','C','D','E')`
`data` 1 point
 - [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
`attr(,"levels")`
[1] "A" "B" "C" "D" "E"
 - [1] 15 20 30 45 50
`attr(,"levels")`
[1] "A" "B" "C" "D" "E"
 - [1] A A B B C C D
Levels: 1 2 3
 - [1] B A C D
`attr(,"levels")`
[1] "15" "20" "30" "45" "50"

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
`attr(,"levels")`
[1] "A" "B" "C" "D" "E"
- Which one of the following is the correct outcome of the command `factor(c(15,20,20,20,30,30,45,45,45,50,50,50,50),levels=c(15,20,30,45,50),ordered=TRUE)`? 1 point
 - [1] 15 < 20 < 30 < 45 < 50
Levels: 15 20 20 20 30 30 45 45 45 50 50 50 50
 - [1] 15 20 30 45 50
Levels: 15 20 20 20 30 30 45 45 45 50 50 50 50
 - [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 15 < 20 < 30 < 45 < 50
 - [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 15 20 30 45 50

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 15 20 20 20 30 30 45 45 45 50 50 50 50
Levels: 15 < 20 < 30 < 45 < 50
- Which one of the following is the correct outcome of the command `factor(c(rep("apple",2),c(rep("banana",3),rep("orange",4))))`? 1 point
 - [1] apple banana orange
Levels: apple apple banana banana banana orange orange orange orange
 - [1] orange orange orange orange banana banana banana apple apple
Levels: orange banana apple
 - [1] apple banana orange apple banana orange banana orange orange
Levels: apple banana orange
 - [1] apple apple banana banana banana orange orange orange orange
Levels: apple banana orange

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] apple apple banana banana banana orange orange orange orange
Levels: apple banana orange
- Which one of the following is the correct outcome of the command `unclass(factor(c(x),levels=c("high school","graduation","post graduation")))` where `x=c("high school","graduation","post graduation","graduation","high school","post graduation","high school","post graduation")`? 1 point
 - [1] 1 2 3 2 1 3 1 3
`attr(,"levels")`
[1] "high school" "graduation" "post graduation"
 - [1] 3 2 1 2 3 1 3 1
`attr(,"levels")`
[1] "post graduation" "graduation" "high school"
 - [1] 1 2 3
`attr(,"levels")`
[1] "high school" "graduation" "post graduation"
 - [1] 3 2 1
`attr(,"levels")`
[1] "post graduation" "graduation" "high school"

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 1 2 3 2 1 3 1 3
`attr(,"levels")`
[1] "high school" "graduation" "post graduation"
- Which one of the following is the correct outcome of the command `as.factor(c(10,20,20,30,30,30,40,40,50,50,50))`? 1 point
 - [1] 10 20 30 40 50
Levels: 10 20 30 40 50
 - [1] 50 50 50 40 40 30 30 30 20 20 10
Levels: 50 40 30 20 10
 - [1] 10 20 20 30 30 30 40 40 50 50 50
Levels: 10 20 30 40 50
 - [1] 10 20 20 30 30 30 40 40 50 50 50
Levels: 50 40 30 20 10

No, the answer is incorrect.
Score: 0
Accepted Answers: [1] 10 20 20 30 30 30 40 40 50 50 50
Levels: 10 20 30 40 50