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Final Exam

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This edX course will end with a final exam. The exam consists of 50 short challenges that you have to solve without any help. The challenges are randomly generated on the fly, so nobody gets to see the same set of challenges. There are four types of challenges. In each of these types, clicking “Next” will submit your answer.

- Multiple Choice Challenge: Select the correct option given a statement or question.

Select the correct option

⌚ 04:20

Which function applies a function to each element in an iterable, and returns the result as a list.

- ☒ lapply press "1"
- ☐ sapply press "2"
- ☐ vapply press "3"

Next

- Coding Challenge: Given a required code output, fill in the blanks of a script to replicate the output. You have three attempts to try out your code before submitting it.

Fill in the blanks!

⌚ 04:41

Required output

```
[[1]]
[1] "THIS" "IS" "NOT" "A" "TEST"

[[2]]
[1] "TIC" "TAC" "TOE"
```

Script.R

```
word <- c("this is not a test", "tic tac toe")
lapply(strsplit(word, " "), toupper )
```

Sample Output

```
[[1]]
[1] "THIS" "IS" "NOT" "A" "TEST"

[[2]]
[1] "TIC" "TAC" "TOE"
```

Try Code (2)

Next

- Blanks Challenge: Given a required code output, choose from a list of options to fill in the blanks of a script to replicate the output. You have three attempts to try out your code before submitting it.

Fill in the blanks!

⌚ 03:38

Required output

```

x y
1 9 X
2 16 B
3 13 C
4 18 V
5 1 J
6 17 K
          
```

Script.R

```

x <- c(9, 16, 13, 18, 1, 17, 20, 6)
y <- c("X", "B", "C", "V", "J", "K", "E", "W")
df <- data.frame(x, y)
head (df, 6 )
          
```

Try Code (3)

1 3
2 length
3 4
4 dim
5 head
6 5
7 tail
8 6

Next

- Output Challenge: Out of four options, select the output that is generated by a given piece of code. OR: Out of four options, select the code that generates a given piece of code.

Match output with code

⌚ 04:50

R output

```

[[1]]
[1] "THIS" "IS"   "A"     "TEST"

[[2]]
[1] "TIC" "TAC" "TOE"
          
```

☐

```

word <- c("this is a test", "r is awesome")
lapply(strsplit(word, " "), toupper)
          
```

press "1"

☐

```

word <- c("this is a test", "crack the code", "")
lapply(strsplit(word, " "), toupper)
          
```

press "2"

☒

```

word <- c("this is a test", "tic tac toe")
lapply(strsplit(word, " "), toupper)
          
```

press "3"

Next

Timing

There are two independent time constraints:

- To complete the entire assessment, you get 4 hours. Time starts counting when you hit "Start" in the home screen.
- You have maximum 4 minutes to complete every challenge. If you do not complete your challenge in time, all the work you've done will be submitted as your answer, and the system automatically proceeds to the next challenge.

If your internet connection drops, or you want to take a break, you have to close the assessment window. If you then come to the assessment again through the edX launch link, you can resume your assessment. You will continue where you left of.

WARNING: your end time will stay the same. If you return 4 hours after you started the assessment the first time, your time is up and you cannot retake the assessment. You can reconnect as often as you want within the 4 hour time limit.

Scoring

Whenever you hit "Next" in a challenge, you immediately go to the next challenge and you have no option to review your answer. You will also not receive any feedback about the correctness of your answer. The overall score (the number of correct challenges divided by 50, as a percentage) will be calculated when you finish all 50 challenges, or when you do not finish your assessment within 4 hours. When your score is calculated, it will automatically be sent back to edX, where it will appear in your grade sheet.

WARNING: You can only take this assessment once and every answer you give is final. There is no option to retake the assessment or to reset answers on challenges.

Use cases

- You start the assessment. You answer all 50 challenges and take on average 3 minutes to complete each challenge. You do not leave the interface. This means you finish the assessment in 2 hours and 30 minutes. This is within the time limit of 4 hours, and you will get a score at the end. Suppose you answered 40 out of 50 challenges correctly. Your score will be 80%. This score is sent back to edX.
- You start the assessment. You answer 10 challenges and take on average 2 minutes to complete each challenge. This means you've spent 20 minutes. Your internet connection drops, so you close your window. You reconnect after 1 hour, which is 1 hour and 20 minutes after starting. This means you still have 2 hours and 40 minutes left to complete the 40 remaining challenges.
- You start the assessment. You answer 10 challenge in 20 minutes, and take a long break. You reconnect after 3 hours, so 3 hours and 20 minutes after starting. You only have 40 minutes left to complete the 40 remaining challenges. This means that, although you get 4 minutes to complete each challenge separately, you have to spend your time wisely, because you only have on average 1 minute for each challenge if you want to finish all challenges within the deadline.
- You start the assessment. You answer 10 challenges in 20 minutes, and take a long break. You reconnect after 3 hours, so you only have 40 minutes left to complete the 40 remaining challenges. You are doing the 31st challenge when your deadline expires. You submit your answer. The assessment ends and your last answer is not accepted because it was outside of the deadline. Suppose that all of the 30 challenges you answered were correct. Your score will be 30 divided by 50, so 60%.
- You start the assessment. You answer 10 challenges in 20 minutes, and take a very long break. You reconnect after 5 hours. The home screen will tell you that your deadline expired, and a score is calculated based on the 10 challenges you answered. Assuming you answered all 10 challenges correctly when you started, your score will be 10 divided by 50, so 20%.



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