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## Question 4 - able to get all calculations in a single line?

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Jorge Castaneda · a month ago

I was just wondering if anybody was able to get this answer by just using one line of commands. I had to use multiple lines to subset the data and calculate the difference. I was thinking an anonymous function would be needed but it looked a bit complex (more than what was shown in the slides). Thanks for sharing any insight!

0 · flag



Vladimir Kirilenko COMMUNITY TA · a month ago

Here you are - whole function for you:

```
pollutantmean <- function(directory, pollutant, id = 1:332) {return(mean(apply(rbind, lapply(list.files(directory, full.names=T), read.csv))[id],na.rm=TRUE))}
```

I changed something, so it shouldn't work right. But you can try to reconstruct it. :) So, in the question you can use similar approach.

3 · flag

Anonymous · 21 days ago

Hm. I got it down to two lines. Technically, I could condense it into one line -- but it would be longer to type, so it didn't occur to me to do that.

Unless there is a way to condense (for example) `x[a] - x[b]` ?

If your approach here is "use a loop function", I understand you. If it's something else, I have missed the point!

0 · flag



Edper Castro · 20 days ago

You can subset the `tapply` and then apply `diff` of the resulting vector/array in one line. You need to target by the way, only the columns that you want.

Example :

```
diff(tapply(ds$col1, ds$col2, FUN)[c(1,3)])
```

↑ 3 ↓ · flag

Anonymous · 20 days ago 🔍

Woah. That's cool. Thanks!

↑ 0 ↓ · flag

 Edper Castro · 20 days ago 🔍

You're welcome.

Did you try it?

Happy coding and GOD bless.

↑ 1 ↓ · flag

 Susan Fairchild Signature Track · 20 days ago 🔍

Super awesome. I was also doing it in two sections. This helps a lot!

↑ 0 ↓ · flag

 Edper Castro · 19 days ago 🔍

Keep going Susan!

GOD bless.

↑ 1 ↓ · flag

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 Jorge Castaneda · a month ago 🔍

Wow. It is possible then! Thanks!

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