**Solutions – Intermediate**

Here’s the code you should have added:

advs <- advs\_temp %>%

# Calculate ABLFL

derive\_extreme\_flag(

by\_vars = vars(STUDYID, USUBJID, PARAMCD),

order = vars(ADT),

new\_var = ABLFL,

mode = "last",

filter = (!is.na(AVAL) & ADT <= TRTSDT)

) %>%

# Calculate BASE

derive\_var\_base(

by\_vars = vars(STUDYID, USUBJID, PARAMCD)

) %>%

# Calculate CHG

derive\_var\_chg() %>%

# Sort the data frame

arrange(USUBJID, PARAMCD, ADT)

1. **80.29 kg**
2. **-0.44 C**
3. Use the same code as before, but change the red extracts below in the derive\_extreme\_flag function:

advs2 <- advs\_temp %>%

…

order = vars(ADT, VSSEQ),

…

Use the following code to compare against the advs you created earlier:

library(diffdf)

# Compare 2 data frames advs & advs2 with the key variables USUBJID, PARAMCD, ADT

diffdf(advs, advs2, keys = c("USUBJID", "PARAMCD", "ADT"))

You should see printed to the console:

No issues were found!

This shows there was no impact of the change with the current data.