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## Workshop exercise 1: Catching errors
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```
# For each question, there is some code with an error
# Either the code doesn't run, or it does something incorrectly
# Your task is to find and fix the error
# The 1st person in the pair should screenshare and answer questions 1 & 2
# Then the 2nd person in the pair should screenshare and answer 3 & 4
# (If there are three people, you can do 2-1-1 or similar)
# When a person is screensharing, they are the "scribe"
# The person watching the scribe is the "reviewer".
# Reviewer(s) should offer comments/help if/when the scribe is stuck or writes problematic code.
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```
# GOOD LUCK!
```

```
# Question 1 ----
# This code tries to calculate a person's BMI, but does so incorrectly.
# Try to correct it.
# First remove the quotes surrounding the code
```

```
,
jenny_height_cm <- 150
jenny_weight_kg <- 60
jenny_bmi <- jenny_weight_kg/jenny_height_cm
jenny_bmi
,
```

```
## [1] "\njenny_height_cm <- 150\njenny_weight_kg <- 60\njenny_bmi <- jenny_weight_kg/jenny_height_cm\njenny_bmi\n"
```

```
# Question 2 ----
# This code is supposed to create some variable tabulations with the `table()` function
# The dataset is a measles patient linelist from the {outbreaks} package
# Counts are by gender, complications and class
# First remove the quotes surrounding the code
```

```
,
if(!require(pacman)) install.packages("pacman")
pacman:p_load(outbreaks)
table()measles_hagelloch_1861$$gender
table()measles_hagelloch_1861$$complications
table()measles_hagelloch_1861$$class
,
```

```
## [1] "\nif(!require(pacman)) install.packages(\"pacman\")\npacman:p_load(outbreaks)\ntable()measles_hagelloch_1861$$gender\ntable()measles_hagelloch_1861$$complications\ntable()measles_hagelloch_1861$$class\n"
```

```
# Question 3 ----
# This code is supposed to read in a dataset from the web
# It uses the `read_csv()` function from the {readr} package
# The file is at https://tinyurl.com/diabetes-china
# The code then tries to view the first 5 rows from the dataset
# It has errors that mean it does not run.
```

```
"
pacman::p_load(readr)
read_csv(https://tinyurl.com/diabetes-china)
head(rows = 5, x = diabetes_china)
"
```

```
## [1] "\npacman::p_load(readr)\nread_csv(https://tinyurl.com/diabetes-china)\nhead(rows
= 5, x = diabetes_china)\n"
```

```
# Question 4 ----
# The commands below paste dataset columns together to make sentences like
# "on ____-__-__, xxx cases were reported"
# The first command works but the second command has issues. Try to remedy these.
```

```
',
paste("On",
      zika_yap_2007$onset_date,
      zika_yap_2007$value,
      "case(s) were reported in Yap")

paste("On",
      zika_sanandres_2015$cases,)
zika_sanandres_2015$date,
"case(s) were reported in San Andres")
'
```

```
## [1] "\npaste(\"On\", \n      zika_yap_2007$onset_date, \n      zika_yap_2007$value, \n
\"case(s) were reported in Yap\")\n\npaste(\"On\", \n      zika_sanandres_2015$cases,) \nzika_sanandres_2015$date, \n\"case(s) were reported in San Andres\")\n"
```