

## ex3\_summer\_winter.r

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```
library(dplyr)

##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
# Part 1

## Question 1a & Question 1b
swo <- read.csv("datasets_exam/summer_winter_olympics.csv")

head(swo)

##   X.9   Team..IOC.code. X..Summer   X X.1 X.2 Total X..Winter X.3 X.4 X.5
## 1   1 Afghanistan (AFG)      13   0   0   2     2         0   0   0   0
## 2   2   Algeria (ALG)      12   5   2   8    15         3   0   0   0
## 3   3   Argentina (ARG)     23  18  24  28    70        18   0   0   0
## 4   4   Armenia (ARM)       5   1   2   9    12         6   0   0   0
## 5   5 Australasia (ANZ)      2   3   4   5    12         0   0   0   0
## 6   6   Australia (AUS)     25 138 153 177   468        18   5   3   4
##   Total.1 X..Games X.6 X.7 X.8 Combined.total
## 1         0       13   0   0   2              2
## 2         0       15   5   2   8             15
## 3         0       41  18  24  28             70
## 4         0       11   1   2   9             12
## 5         0        2   3   4   5             12
## 6        12       43 143 156 181            480

## Question 1c
colnames(swo) <- c(
  "index",
  "NOC",
  "summer_played",
  "summer_gold",
  "summer_silver",
  "summer_bronze",
  "summer_total",
  "winter_played",
```

```
    "winter_gold",  
    "winter_silver",  
    "winter_bronze",  
    "winter_total",  
    "both_played",  
    "both_gold",  
    "both_silver",  
    "both_bronze",  
    "both_total"  
)
```

```
## Question 1d
```

```
dim(swo)
```

```
## [1] 146 17
```

```
nrow(swo)
```

```
## [1] 146
```

```
ncol(swo)
```

```
## [1] 17
```