Exercise 2

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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

```
winter <- read.csv("datasets_exam/winter_olympic.csv")
```

Question 1b

```
head(winter)
```

```
##   Rank                  NOC Gold Silver Bronze Total  Region
## 1    1        Russia (RUS)*   13     11      9    33 EURASIA
## 2    2         Norway (NOR)   11      5     10    26  EUROPE
## 3    3         Canada (CAN)   10     10      5    25 NORTH_A
## 4    4  United States (USA)    9      7     12    28 NORTH_A
## 5    5    Netherlands (NED)    8      7      9    24  EUROPE
## 6    6        Germany (GER)    8      6      5    19  EUROPE
```

Question 1c

```
colnames(winter)
```

```
## [1] "Rank"   "NOC"    "Gold"   "Silver" "Bronze" "Total"  "Region"
```

Question 1d

```
dim(winter)
```

```
## [1] 26  7
```

```
nrow(winter)
```

```
## [1] 26
```

```r
ncol(winter)
```

```
## [1] 7
```

Part 2

```r
sort_total <- winter %>% arrange(Total, NOC)
head(sort_total)
```

```
##   Rank                  NOC Gold Silver Bronze Total    Region
## 1   25        Croatia (CRO)    0      1      0     1    EUROPE
## 2   26     Kazakhstan (KAZ)    0      0      1     1   EURASIA
## 3   21       Slovakia (SVK)    1      0      0     1    EUROPE
## 4   20        Ukraine (UKR)    1      0      1     2   EURASIA
## 5   24      Australia (AUS)    0      2      1     3 AUSTRALIA
## 6   19  Great Britain (GBR)    1      1      2     4    EUROPE
```

Part 3

Part 4

Part 6

Question 1a

Question 1b

Question 1c

Question 1d

Question 1e