Q4.R

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```r
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5      v purrr   0.3.4
## v tibble  3.1.4      v dplyr   1.0.7
## v tidyr   1.1.3      v stringr 1.4.0
## v readr   2.0.1      v forcats 0.5.1
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
poke = read.csv(file = "pokemon_2019.csv")
# head(poke)

# plot(poke[3],horiz=TRUE,las=2) # Error due to encoding errors, e.g., line 32



##############################
# Q4a


poke %>%
  select(Name,Height_m,isLegendary) %>%
  filter((Height_m > 2)&(isLegendary == "True"))
```

```
##          Name Height_m isLegendary
## 1     Moltres     2.01        True
## 2     Mewtwo     2.01        True
## 3      Entei     2.11        True
## 4     Suicune     2.01        True
## 5      Lugia     5.21        True
## 6      Ho-Oh     3.81        True
## 7     Latios     2.01        True
## 8     Kyogre     4.50        True
## 9     Groudon     3.51        True
## 10   Rayquaza     7.01        True
## 11     Dialga     5.41        True
```

```
## 12    Palkia    4.19    True
## 13 Regigigas  3.71    True
## 14  Giratina   6.91    True
## 15    Arceus   3.20    True
## 16  Cobalion   2.11    True
## 17   Virizion  2.01    True
## 18  Reshiram   3.20    True
## 19    Zekrom   2.90    True
## 20    Kyurem   3.00    True
## 21   Xerneas   3.00    True
## 22   Yveltal   5.79    True
## 23   Zygarde   5.00    True
```

```
#############################
# Q4b

poke_1 <- poke %>%
  filter((Body_Style == "head_arms")|(Body_Style == "serpentine_body"))

plot(poke_1$Attack,poke_1$Defense,
     main = "Attack vs Defense of Head_arms and Serpentine_body Pokemon",
     xlab = "Attack",
     ylab = "Defense",
     cex = 0.5)
```

Attack vs Defense of Head_arms and Serpentine_body Pokemon