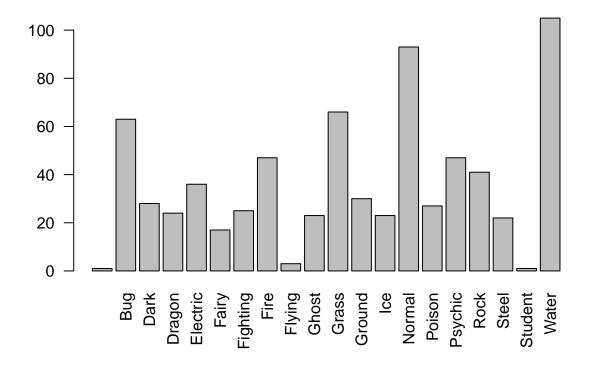
Q5.R

mirrien

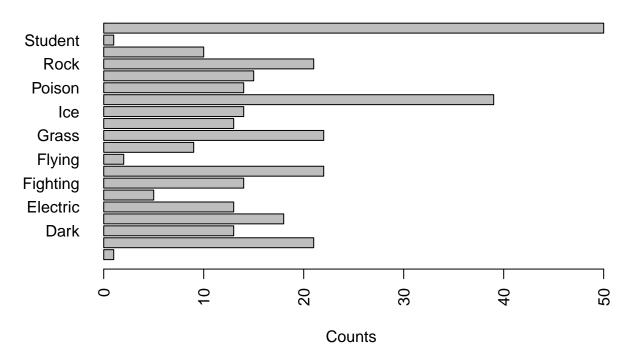
2022-01-26

```
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()
poke = read.csv(file = "pokemon_2019.csv")
poke$Type_1=as.factor(poke$Type_1)
pokenew = poke[1,]
# pokenew = poke[1,]*NA
# names(pokenew)
pokenew$Number <- 722</pre>
pokenew$Name <- "Mirrien"</pre>
pokenew$Type_1 <- "Student"</pre>
pokenew$Type_2 <- "Poison"</pre>
pokenew$HP <- 500
pokenew$Attack <- 500</pre>
pokenew$Defense <- 500</pre>
pokenew$Sp_Atk <- 500</pre>
pokenew$Sp_Def <- 500</pre>
pokenew$Speed <- 500</pre>
pokenew$Total <- sum(pokenew[6:11])</pre>
pokenew$Generation <- 6</pre>
pokenew$isLegendary <- "True"</pre>
pokenew$Color <- "White"</pre>
pokenew$hasGender <- "True"</pre>
pokenew$Height_m <- 1.75</pre>
pokenew$Weight_kg <- 50</pre>
pokenew$hasMegaEvolution <- "True"</pre>
pokenew$Catch_Rate <- 0</pre>
pokenew$Body_Style <- "Dark_meat"</pre>
```

```
pokemonextra = rbind(pokenew, poke)
# plot(pokemonextra[,"Type 1"], las=2) # Error here but will work with some modifications
# is.data.frame(poke)
# is.data.frame(pokemonextra)
# is.numeric(poke[,"Type 1"])
# is.numeric(pokemonextra[,"Type_1"])
# is.factor(poke[,"Type_1"])
# is.factor(pokemonextra[,"Type_1"])
poke[1:5,"Type_1"]
## [1] Grass Grass Fire Fire
## 19 Levels: Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost ... Water
pokemonextra[1:5, "Type_1"]
## [1] "Student" "Grass"
                           "Grass"
                                     "Grass"
                                                "Fire"
unique(poke[,"Type_1"])
   [1] Grass
                 Fire
                          Water
                                   Bug
                                             Normal
                                                      Poison
                                                               Electric Ground
  [9]
                 Fairy
                          Fighting Psychic
                                                      Ghost
                                            Rock
                                                               Ice
                                                                        Dragon
## [17] Dark
                 Steel
                          Flying
## 19 Levels: Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost ... Water
pokemonextra[,"Type_1"] = factor(pokemonextra[,"Type_1"])
pokemonextra[1:5, "Type_1"]
## [1] Student Grass
                       Grass
                               Grass
                                       Fire
## 20 Levels: Bug Dark Dragon Electric Fairy Fighting Fire Flying Ghost ... Water
# as.numeric(poke[,"Type_1"])
# factor(poke[,"Attack"])
# you don't need to give the input argument 'levels' to factor
# but if you do it will give the levels nicer names.
levels(pokemonextra[,"Type_1"])
## [1] ""
                   "Bug"
                              "Dark"
                                         "Dragon"
                                                     "Electric" "Fairy"
## [7] "Fighting" "Fire"
                              "Flying"
                                         "Ghost"
                                                     "Grass"
                                                                "Ground"
## [13] "Ice"
                   "Normal"
                              "Poison"
                                                     "Rock"
                                                                "Steel"
                                          "Psychic"
## [19] "Student"
                   "Water"
levels(poke[,"Type_1"])
## [1] ""
                   "Bug"
                              "Dark"
                                          "Dragon"
                                                     "Electric" "Fairy"
## [7] "Fighting" "Fire"
                              "Flying"
                                         "Ghost"
                                                     "Grass"
                                                                "Ground"
## [13] "Ice"
                   "Normal"
                              "Poison"
                                         "Psychic"
                                                     "Rock"
                                                                "Steel"
## [19] "Water"
```



Counts of Type_1 of Pokemon Taller than 1 m and Heavier than 1 kg



#