## 5. Problem Statement

1. obtain the elements of the union between two character vectors.

2. Get those elements that are common to both vectors

Get the difference of the elements between two character vectors.

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[10:32,]))
> setdiff(vec1, vec2)
[1] "Mazda RX4"
[6] "valiant"
> setdiff(vec2, vec1)
                                 "Mazda RX4 Wag"
                                                           "Datsun 710"
                                                                                      "Hornet 4 Drive"
                                                                                                                 "Hornet Sportabout"
                                                           "Merc 240D"
                                 "Duster 360"
                                                                                      "Merc 230"
 [1] "Lincoln Continental" "Chrysler Imperial"
[6] "Toyota Corona" "Dodge Challenger"
[11] "Fiat X1-9" "Porsche 914-2"
                                                                                                "Honda Civic"
                                                                 "Fiat 128"
                                                                                                                              "Toyota Corolla"
                                   "Dodge Challenger"
"Porsche 914-2"
                                                                                                                             "Pontiac Firebird"
"Ferrari Dino"
                                                                  "AMC Javelin"
                                                                                                "Camaro Z28"
                                                                                               "Ford Pantera L"
                                                                 "Lotus Europa"
[16] "Maserati Bora"
                                    "Volvo 142E'
```

4. Test the equality of two character vectors

```
vec1 = c(rownames(mtcars[1:15,]))
vec2 = c(rownames(mtcars[11:25,]))
> setequal(vec1, vec2)
[1] FALSE
> identical(vec1, vec2)
[1] FALSE
```