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

```
vec1 = c(rownames(mtcars[1:15,]))
```

vec2 = c(rownames(mtcars[10:32,]))

```
[1] "Mazda RX4"
[6] "Valiant"
[11] "Merc 280C"
                                             "Mazda RX4 Wag"
                                                                                 "Datsun 710"
                                                                                                                     "Hornet 4 Drive"
                                                                                                                                                         "Hornet Sportabout"
                                                                                 "Merc 240D"
"Merc 450SL"
                                                                                                                     "Merc 230"
"Merc 450SLC"
                                                                                                                                                         "Merc 280<sup>"</sup>
"Cadillac Fleetwood"
                                             "Duster 360'
                                             "Merc 450SE"
| II | Merc 280C

> vec2

| [1] "Merc 280"

| [6] "Cadillac Fleetwood"

| [11] "Toyota Corolla"

| [16] "Pontiac Firebird"

| [21] "Ferrari Dino"
                                               "Merc 280C"
                                                                                     "Merc 450SE"
                                                                                                                           "Merc 450SL"
                                                                                                                                                                "Merc 450SLC
                                                                                                                                                                "Honda Civic"
"Camaro Z28"
                                              "Lincoln Continental"
                                                                                    "Chrysler Imperial"
                                                                                                                          "Fiat 128"
                                                                                                                          "AMC Javelin"
                                              "Toyota Corona"
"Fiat X1-9"
                                                                                    "Dodge Challenger"
"Porsche 914-2"
                                                                                                                          "Lotus Europa"
                                                                                                                                                                "Ford Pantera L"
                                               "Maserati Bora"
                                                                                    "Volvo 142E"
[21] Ferrari Dino
> union(vec1,vec2)
[1] "Mazda RX4"
[6] "Valiant"
[11] "Merc 280C"
[16] "Lincoln Continental"
[21] "Toyota Corona"
[26] "Fiat X1-9"
[21] "Maccapti Boog"
                                                                                    "Datsun 710"
                                                                                                                          "Hornet 4 Drive"
                                               "Mazda RX4 Wag'
                                                                                                                                                                "Hornet Sportabout"
                                               "Duster 360"
"Merc 450SE"
                                                                                    "Merc 240D"
"Merc 450SL"
"Fiat 128"
                                                                                                                          "Merc 230"
"Merc 450SLC"
                                                                                                                                                                "Merc 280"
"Cadillac Fleetwood"
                                               "Chrysler Imperial"
                                                                                                                          "Honda Civic"
                                                                                                                                                                "Toyota Corolla'
                                               "Dodge Challenger"
"Porsche 914-2"
                                                                                    "AMC Javelin"
                                                                                                                          "Camaro Z28"
                                                                                                                                                                "Pontiac Firebird"
"Ferrari Dino"
                                                                                     "Lotus Europa"
                                                                                                                          "Ford Pantera L"
[31] "Maserati Bora"
                                               "Volvo 142E"
```

2. Get those elements that are common to both vectors.

```
vec1 = c(rownames(mtcars[1:15,]))
```

vec2 = c(rownames(mtcars[10:32,]))

```
u<-union(vec1,vec2)
u
a<-match(vec1,vec2)
res<-vec2[na.omit(a)]
res</pre>
```

3. 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)
```

```
> setdiff(vec1,vec2)
[1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive" "Hornet Sportabout"
[6] "Valiant" "Duster 360" "Merc 240D" "Merc 230"
> |
```

4. Test the quality of two character vectors.

```
vec1 = c(rownames(mtcars[1:15,]))
```

vec2 = c(rownames(mtcars[11:25,]))

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

```
> vec1 = c(rownames(mtcars[1:15,]))
```

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