Task#3_modified

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```r
set.seed(42)
```

```r
data_analysis = function(data, row_select, column_select){
  analysis = function(x){
    if (is.numeric(x)){
      return(mean(x))
    } else {
      return(summary(factor(x)))
    }
  }
  data = data[row_select, column_select]
  return(list(data, lapply(data, analysis)))
}
```

```r
data_analysis(ChickWeight, 1:23, 1:4)
```

```
## [[1]]
##    weight Time Chick Diet
## 1      42    0     1    1
## 2      51    2     1    1
## 3      59    4     1    1
## 4      64    6     1    1
## 5      76    8     1    1
## 6      93   10     1    1
## 7     106   12     1    1
## 8     125   14     1    1
## 9     149   16     1    1
## 10    171   18     1    1
## 11    199   20     1    1
## 12    205   21     1    1
## 13     40    0     2    1
## 14     49    2     2    1
## 15     58    4     2    1
## 16     72    6     2    1
## 17     84    8     2    1
## 18    103   10     2    1
## 19    122   12     2    1
## 20    138   14     2    1
## 21    162   16     2    1
## 22    187   18     2    1
## 23    209   20     2    1
##
## [[2]]
## [[2]]$weight
## [1] 111.4783
##
## [[2]]$Time
## [1] 10.47826
```

```
##
## [[2]]$Chick
##  1  2
## 12 11
##
## [[2]]$Diet
##  1
## 23
```

```
data_analysis(chickwts, c(1:23), c(1:2))
```

```
## [[1]]
##     weight      feed
## 1      179 horsebean
## 2      160 horsebean
## 3      136 horsebean
## 4      227 horsebean
## 5      217 horsebean
## 6      168 horsebean
## 7      108 horsebean
## 8      124 horsebean
## 9      143 horsebean
## 10     140 horsebean
## 11     309   linseed
## 12     229   linseed
## 13     181   linseed
## 14     141   linseed
## 15     260   linseed
## 16     203   linseed
## 17     148   linseed
## 18     169   linseed
## 19     213   linseed
## 20     257   linseed
## 21     244   linseed
## 22     271   linseed
## 23     243   soybean
##
## [[2]]
## [[2]]$weight
## [1] 194.3478
##
## [[2]]$feed
## horsebean   linseed   soybean
##        10        12         1
```