

Task#5_fixed

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```
set.seed(42)

library(dplyr)

##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
df_analysis= function(df, row_select, column_select){
  analysis = function(x){
    if (is.numeric(x)){
      return(sum(x))
    } else {
      return(summary(factor(x)))
    }
  }
  if (!is.character(column_select)){
    columns = colnames(df)[column_select]
  } else {
    columns = column_select
  }

  df = df %>%
    select(columns)
  df = df[row_select, ]

  return(list(df, lapply(df, analysis)))
}

df = ChickWeight
result = df_analysis(df, c(1:23), c("weight", "Diet"))
result[1]

## [[1]]
##   weight Diet
## 1     42    1
## 2     51    1
## 3     59    1
## 4     64    1
## 5     76    1
## 6     93    1
## 7    106    1
```

```
## 8      125      1
## 9      149      1
## 10     171      1
## 11     199      1
## 12     205      1
## 13       40      1
## 14       49      1
## 15       58      1
## 16       72      1
## 17       84      1
## 18     103      1
## 19     122      1
## 20     138      1
## 21     162      1
## 22     187      1
## 23     209      1
```

```
result[2]
```

```
## [[1]]
## [[1]]$weight
## [1] 2564
##
## [[1]]$Diet
## 1
## 23
```

```
df = chickwts
result = df_analysis(df, c(T,F), c("weight", "feed"))
result[1]
```

```
## [[1]]
##      weight      feed
## 1      179 horsebean
## 3      136 horsebean
## 5      217 horsebean
## 7      108 horsebean
## 9      143 horsebean
## 11     309  linseed
## 13     181  linseed
## 15     260  linseed
## 17     148  linseed
## 19     213  linseed
## 21     244  linseed
## 23     243  soybean
## 25     248  soybean
## 27     329  soybean
## 29     193  soybean
## 31     316  soybean
## 33     199  soybean
## 35     158  soybean
## 37     423 sunflower
## 39     392 sunflower
## 41     341 sunflower
## 43     320 sunflower
## 45     334 sunflower
```

```
## 47      297 sunflower
## 49      325  meatmeal
## 51      303  meatmeal
## 53      380  meatmeal
## 55      263  meatmeal
## 57      206  meatmeal
## 59      258  meatmeal
## 61      390   casein
## 63      260   casein
## 65      318   casein
## 67      359   casein
## 69      222   casein
## 71      332   casein
```

```
result[2]
```

```
## [[1]]
## [[1]]$weight
## [1] 9547
##
## [[1]]$feed
##      casein horsebean  linseed  meatmeal  soybean sunflower
##          6         5         6         6         7         6
```