

Assignment 1

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Problem1

i.

```
col.name <- c('Party', 'Results 2019 (%)', 'Results 2014 (%)')
Party <- c('ANC', 'DA',
'EFF', 'IFP', 'FF Plus', 'Others')
Results_2019 <- c(57.50, 20.77, 10.80, 3.38, 2.38, 5.17)
Results_2014 <- c(62.15, 22.23, 6.35, 2.40, 0.90, 5.97)
dat <- data.frame(Party, Results_2019, Results_2014)
names(dat) <- col.name
library(knitr)
kable(dat[1:6,])
```

Party	Results 2019 (%)	Results 2014 (%)
ANC	57.50	62.15
DA	20.77	22.23
EFF	10.80	6.35
IFP	3.38	2.40
FF Plus	2.38	0.90
Others	5.17	5.97

```
summary(dat)
```

```
##      Party      Results 2019 (%) Results 2014 (%)
## Length:6      Min.   : 2.380   Min.   : 0.900
## Class :character 1st Qu.: 3.828   1st Qu.: 3.292
## Mode  :character Median : 7.985   Median : 6.160
##          Mean   :16.667   Mean   :16.667
##          3rd Qu.:18.277   3rd Qu.:18.260
##          Max.   :57.500   Max.   :62.150
```

ii.

```
dat.plot <- matrix(c(Results_2019, Results_2014), nrow=2, ncol=6, byrow=T)
# quartz()
b <- barplot(dat.plot, names.arg=Party, beside=T, ylim=c(0, 65))
text(x = b, y=dat.plot, label=dat.plot, pos = 3, cex = 0.8, offset=0.1)
```

