Final_Exam

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Pharmacy Graduates

```
Graduates<-read.csv("graduates.csv")
#Total annual graduates
sum(Graduates$Total)
```

```
## [1] 14223
```

```
GradOrder<-Graduates[order(Graduates$Total,decreasing=TRUE),]
View(GradOrder)
write.csv(GradOrder, "gradorder.csv", row.names = F)
```

Residency Positions

```
residency<-read.csv("residencies.csv")
residencies<-residency[!is.na(residency$Residency...Number.Positions),]
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
```

```
#Annual Residency Positions Available
sum(residencies$Residency...Number.Positions)
```

```
## [1] 379
```

```
mean(residencies$Residency...Number.Positions)
```

```
## [1] 2.082418
```

```
median(residencies$Residency...Number.Positions)
```

```
## [1] 1
```

```
max(residencies$Residency...Number.Positions)
```

```
## [1] 48
```

```r
quantile(residencies$Residency...Number.Positions, 0.75)
```

```
## 75%
##   2
```

```r
#Number of resident program in each state
agg_tbl<-residencies %>% group_by(State.Name) %>%
summarise(total_count=n(),.groups='drop')
ResOrder<-agg_tbl[order(agg_tbl$total_count,decreasing=TRUE),]
View(ResOrder)
#Total Number of Programs
sum(ResOrder$total_count)
```

```
## [1] 182
```

```r
write.csv(ResOrder, "resorder.csv", row.names = F)
```