ca2a

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I

```
#install.packages("jtools")
#install.packages("huxtable")
#install.packages("ggstance")
#install.packages("summarytols")
#install.packages("pwr")
#install.packages("knitr")
#install.packages("lemon")
```

```
library(foreign)
library(tidyverse)
```

```
## -- Attaching packages ---------------------------------------------------------------------------
```

```
## v ggplot2 3.2.1     v purrr   0.3.2
## v tibble  2.1.3     v dplyr   0.8.3
## v tidyr   0.8.3     v stringr 1.4.0
## v readr   1.3.1     v forcats 0.4.0
```

```
## -- Conflicts ------------------------------------------------------------------------------------
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(dagitty)
library(ggdag)
```

```
##
## Attaching package: 'ggdag'
```

```
## The following object is masked from 'package:ggplot2':
##
##     expand_scale
```

```
## The following object is masked from 'package:stats':
##
##     filter
```

```
library(dplyr)
library(tinytex)
library(jtools)
library(huxtable)
```

```
##
## Attaching package: 'huxtable'

## The following objects are masked from 'package:ggdag':
##
##     label, label<-

## The following object is masked from 'package:dplyr':
##
##     add_rownames

## The following object is masked from 'package:purrr':
##
##     every

## The following object is masked from 'package:ggplot2':
##
##     theme_grey
```

```
library(summarytools)
```

```
## system has no X11 capabilities, therefore only ascii graphs will be produced by dfSummary()

##
## Attaching package: 'summarytools'

## The following objects are masked from 'package:huxtable':
##
##     label, label<-

## The following objects are masked from 'package:ggdag':
##
##     label, label<-

## The following object is masked from 'package:tibble':
##
##     view
```

```
library(ggstance)
```

```
##
## Attaching package: 'ggstance'

## The following objects are masked from 'package:ggplot2':
##
##     geom_errorbarh, GeomErrorbarh
```

```
library(pwr)
library(knitr)
library(lemon)
```

```
##
## Attaching package: 'lemon'

## The following object is masked from 'package:purrr':
##
##     %||%
```

```
knit_print.data.frame <- lemon_print
```

```
library(haven)
students <- read_dta("ca2a_2019.dta")
```

II

III

```
students %>%
  group_by(international) %>%
  summarize(stolen=mean(bicyclestolen_ever, na.rm=TRUE))
```

international	stolen
0	0.4680851
1	0.1888889