

# EDS 241: Assignment 3

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```
# load packages
packages=c("readxl", "stargazer", "here", "tidyr", "dplyr", "stringr", "janitor",
           "cowplot", "ggplot2", "tinytex", "datasets", "tibble", "estimatr")

for (i in packages) {
  if (require(i, character.only=TRUE)==FALSE) {
    install.packages(i, repos='http://cran.us.r-project.org')
  }
  else {
    require(i, character.only=TRUE)
  }
}

# devtools::install_github('rstudio/rmarkdown')
options(scipen=999) # not scientific notation
```

```
# load data
data_raw <- read.csv("SMOKING_EDS241.csv")

data <- data_raw %>% clean_names()
```

- (a) What is the unadjusted mean difference in birth weight of infants with smoking and nonsmoking mothers?

```
# subset smoking mothers
data_smoking <- data %>% filter(tobacco == 1)

# subset nonsmoking mothers
data_non_smoking <- data %>% filter(tobacco == 0)
```

```
unadjusted_mean_difference <-
  mean(data_non_smoking$birthwgt) - mean(data_smoking$birthwgt)
```