Discussion 2

```r
library(haven)
micro <- read_dta("cps_00001.dta")

filtered <- micro |>
  # Restrict to people working more than 50 weeks per year
  # Based on documentation, 6 is coded for those who worked
  # between 50-52 weeks
  filter(wkswork2 == 6) |>
  # Restrict to people earning between 0 and 99999998
  filter(incwage > 0 & incwage < 99999998)

summarized <- filtered |>
  group_by(year) |>
  summarise(
    p10 = Hmisc::wtd.quantile(x = incwage, weights = asecwt, probs = 0.1),
    p50 = Hmisc::wtd.quantile(x = incwage, weights = asecwt, probs = 0.5),
    p90 = Hmisc::wtd.quantile(x = incwage, weights = asecwt, probs = 0.9)
    )

pivoted <- summarized |>
  pivot_longer(cols = c("p10", "p50", "p90"),
               names_to = "quantity",
               values_to = "income")

inflation <- read_csv("https://info3370.github.io/data/inflation.csv")

joined <- pivoted |>
  left_join(inflation, by = join_by(year))

adjusted_data <-
  joined |>
```

```
mutate(income = income * inflation_factor)
```