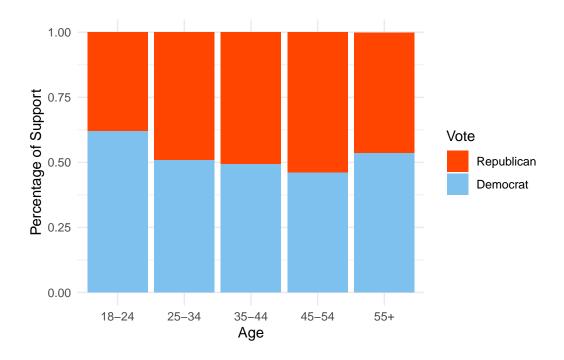
```
#Question 2
set.seed(301)
generate_data <- function(i = 1000) {</pre>
  data <- tibble( party = sample(0:1, i, replace = TRUE),</pre>
      age = sample(c('18-24', '25-34', '35-44', '45-54', '55+'), i, replace = TRUE),
      gender = sample(c('Male', 'Female'), i, replace = TRUE),
      income = sample(c('Low', 'Medium', 'High'), i, replace = TRUE),
      education = sample(c('High School', 'Bachelor', 'Master', 'Doctorate'),
                          i, replace = TRUE)
      )
return(data)
}
sim_data <- generate_data(1000)</pre>
# Example for Age Group
ggplot(sim_data, aes(x = age, fill = factor(party))) +
  geom_bar(position = "fill") +
  scale_fill_manual(values = c("0" = "orangered", "1" = "skyblue2"),
                    labels = c("0" = "Republican", "1" = "Democrat")) +
  labs(x = "Age", y = "Percentage of Support", fill = "Vote") +
  theme minimal()
```



```
political_preferences <-
    readRDS(file = "political_preferences.rds")

modelsummary(
    list(
        "Support Biden" = political_preferences
    ),
    statistic = "mad"
    )</pre>
```

Warning:

`modelsummary` uses the `performance` package to extract goodness-of-fit statistics from models of this class. You can specify the statistics you wish to compute by supplying a `metrics` argument to `modelsummary`, which will then push it forward to `performance`. Acceptable values are: "all", "common", "none", or a character vector of metrics names. For example: `modelsummary(mod, metrics = c("RMSE", "R2")` Note that some metrics are computationally expensive. See `?performance::performance` for details.

This warning appears once per session.

	Support Biden
(Intercept)	0.693
	(0.203)
age 25-34	-0.476
	(0.204)
age 35-44	-0.536
	(0.209)
age 45-54	-0.665
	(0.211)
age 55+	-0.357
	(0.215)
genderMale	-0.138
	(0.127)
$education \\ Doctorate$	-0.073
	(0.179)
educationHigh School	-0.110
	(0.172)
education Master	-0.313
	(0.175)
Num.Obs.	1000
R2	0.022
Log.Lik.	-684.606
ELPD	-693.7
ELPD s.e.	4.1
LOOIC	1387.4
LOOIC s.e.	8.3
WAIC	1387.4
RMSE	0.50