Assignment 9

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Load Libraries

```
library(rjson)
library(RJSONIO)
```

```
##
## Attaching package: 'RJSONIO'

## The following objects are masked from 'package:rjson':
##
##     fromJSON, toJSON
```

```
library(gt)
library(ggplot2)
```

Format Data and Create Data Frame

The data was uploaded from the NY Times API I created. It shows data for the top stories in the U.S.

```
usa_data <- fromJSON("https://api.nytimes.com/svc/topstories/v2/us.json?api-key=VhHaGQL7qb0A4ulIICuMg2M!

usa_results <- usa_data[['results']]

new1 <- toJSON(usa_results, pretty = TRUE)

test <- fromJSON(new1)

finalData <- c()

for (num in 1:25)
{
  sample <- test[[num]]
  finalData <- rbind(finalData, sample)
}

finalData <- as.data.frame(finalData)
gt(finalData[,3:11]) |>
  tab_header(title = "Top Stories")
```

title	
Police Were Told Maine Gunman Had Threatened to Carry Out Shooting Spree	A Maine s
Top Marine General Hospitalized After Apparently Having Heart Attack	The
Union Victories May Lift Biden, as U.A.W. Targets Tesla and Others	President Biden's support
Judge Orders Border Agents to Stop Cutting Texas' Barbed Wire Fence	The
Democratic Rifts Over Israel Burst to the Forefront in Congress	The divisions are erupting as the
Biden's Support for Israel Now Comes With Words of Caution	The admi
Biden Issues Executive Order to Create A.I. Safeguards	The sweeping o
$23,500 in Coins to Pay a Settlement? Judge Says Keep the Change and Try Again.	A Colora
Cars Seized by Police Get Supreme Court Scrutiny in Civil Forfeiture Case	S
Tracking Tropical Storm Pilar	
A Vibrant Center in Oakland Has Nurtured Disabled Artists for Nearly 50 Years	Artists from Creati
Colorado Trial Considers Whether the 14th Amendment Disqualifies Trump	Some constitutional ex
Trump Is Still Far Ahead in Iowa Poll, With Haley Matching DeSantis for 2nd	Former President
How Trump's Verbal Slips Could Weaken His Attacks on Biden's Age	Donald Trump, 77, has r
The Latest Target for California Conservatives? Local School Boards	Several California scho
Biden to Issue First Regulations on Artificial Intelligence Systems	In an order to be issued on Mon
Federal Judge Reinstates Gag Order on Trump in Election Case	
Eyedrops From Major Brands May Cause Infection, F.D.A. Says	T
'A Communal Sigh of Relief': Emerging From Lockdown, Lewiston Gathers to Mourn	Reside
Maine Gunman Disclosed He Had Mental Health Issues, Gun Shop Owner Says	The man sou
The Devil's Bargain Mike Pence Could Not Escape	
Primary Battles Brew Over Progressive Democrats' Stances on Israel	Representative Su
Why Illegal Border Crossings Are at Sustained Highs	
Halloween Headaches in Salem, Mass.: Traffic. Crowds. Tiny Liquor Bottles?	
Obama's Presidential Center Is Rising, Finally, in Chicago	The city

Short Analysis

I am interested in how long the titles are for each story. The results are below. It appears that most of the titles were relatively long, which is surprising to me because most titles are usually short in my experience.

For reference, the following section contains 50 characters:

This is a sentence. This is another sentence. Bye.

For more reference, the following section contains 100 characters:

These are sentences for an article that I think is a bit too long. It just keeps on going and going.

```
finalData$characters <- nchar(finalData[,3])

ggplot(finalData, aes(characters)) +
  geom_bar() +
  labs(title = "Bar Graph of the Number of Characters") +
  xlab("Number of Characters") +
  ylab("Frequency")
```

Bar Graph of the Number of Characters