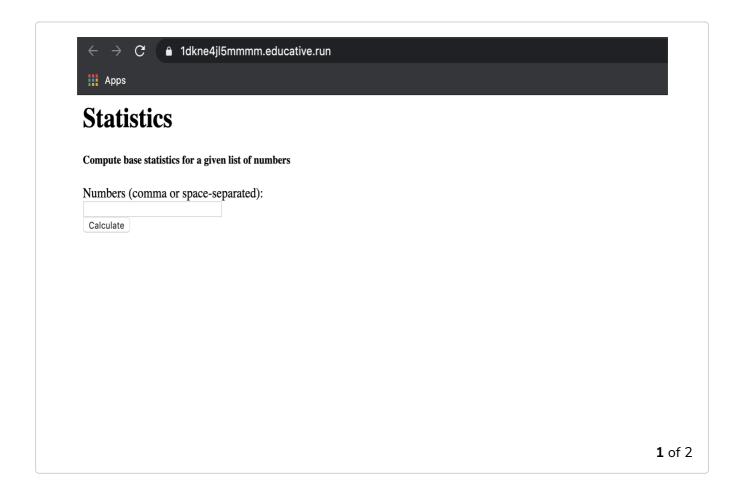
## Challenge: Web Application for Statistics

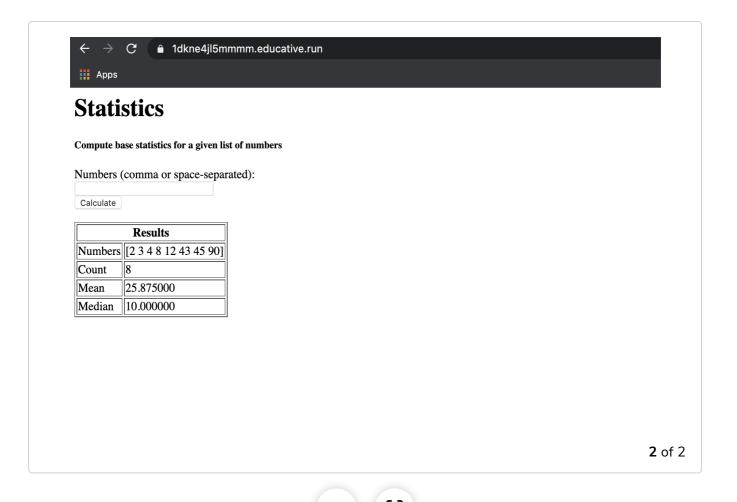
This lesson brings you a challenge to solve.

we'll cover the following ^
• Problem statement

## Problem statement #

Develop a web application that lets the user put in a series of *numbers*, and prints out the numbers, their *count*, their *mean*, and their *median*, like in the following screenshot:





**Remark:** Use 0.0.0.0:3000 or localhost:3000 or simply :3000 for the connection. If port 3000 is already occupied, use localhost:9001 for example.

Try to attempt the challenge below. Feel free to view the solution, after giving some shots. Good Luck!

**Hint:** Do not forget to *import* log, sort, strconv, and strings packages.

Environment Variables		^
Key:	Value:	
GOROOT	/usr/local/go	
GOPATH	//root/usr/local/go/src	
PATH	//root/usr/local/go/src/bin:/usr/local/go	

```
package main
import (
       "net/http"
)
type statistics struct {
       numbers []float64
               float64
       mean
       median float64
}
const form = `<html><body><form action="/" method="POST">
<h1>Statistics</h1>
<h5>Compute base statistics for a given list of numbers</h5>
<label for="numbers">Numbers (comma or space-separated):</label><br>
<input type="text" name="numbers" size="30"><br />
<input type="submit" value="Calculate">
</form></html></body>`
const error = `%s``
var pageTop = ""
var pageBottom = ""
// Define a root handler for requests to function homePage, and start the webserver combined
func main() {
// Write an HTML header, parse the form, write form to writer and make request for numbers
func homePage(writer http.ResponseWriter, request *http.Request) {
       // write your code here
// Capture the numbers from the request, and format the data and check for errors
func processRequest(request *http.Request) ([]float64, string, bool) {
       // write your code here
       return nil, "", false
}
// sort the values to get mean and median
func getStats(numbers []float64) (stats statistics) {
       // write your code here
       return stats
}
// seperate function to calculate the sum for mean
func sum(numbers []float64) (total float64) {
       // write your code here
       return 0
}
// seperate function to calculate the median
func median(numbers []float64) float64 {
       // write your code here
       return 0
}
func formatStats(stats statistics) string {
       return fmt.Sprintf(`
Results
```

We hope that you were able to solve the challenge. The next lesson brings you the solution to this challenge.