

## Introduction

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With the introduction of both **strings** and **arrays** in JavaScript, we now have the ability to program both amazing and amazingly useful programs. In MP3, you will work on data that starts to approach “**big data**”. Specifically, you will examine twitter posts that have been posted with the **#illini** hashtag.

**Remember:** This MP is a **solo assignment**. You should review the academic integrity policy on the course website if you have any concerns about what is reasonable to do when completing this MP

## Getting Started

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Similar to MP2 and the labs, we have prepared a base set of files for you work from. You can find these files on the CS 105 website, under the “Assignments” tab, and under the “MP3” link. The file you will download is a zipped file and needs to be **extracted**.

## Searching Twitter Data

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Inside of `mp3.js`, you will find an empty function: `function searchTwitterData(s, data)`

In order to complete this MP, you must program `searchTwitterData()` to search through the twitter data, which is passed in via an array stored in the variable `data`, and return how many tweets contains the string stored in the variable `s`.

Fortunately, JavaScript strings have an extremely useful function to help us complete this. If `str` is a variable that contains a String, the function `str.search(otherString)` will search within `str` for `otherString`. If the `otherString` is found within `str`, `str.search(otherString)` returns a non-negative integer. If `otherString` is not found, `str.search(otherString)` returns `-1`.

For example:

```
var str = "Hello world, this is CS 105";
str.search("Hello"); // returns 0
str.search("Hi"); // returns -1
str.search("hi"); // returns 14 ("this" contains "hi")
var csString = "CS";
str.search(csString); // returns 21
```

## Scoring and Submission

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This MP has no partial credit. If your function successfully searches the twitter data, you will receive all 30 points. To submit MP3, follow the link on the MP3 page on the CS 105 website for the submission page.