



SKIMLINKS

Coding Challenge

The Marvel Comics API allows developers to access information about Marvel's vast library of comics.

We want you to use the Marvel API (see <http://developer.marvel.com>) to **generate the following reports:**

Part One:

1. A list of all characters in alphabetical order.
2. The top 10 most popular characters; popularity being measured by how many comics the character appears in.

Part Two:

A character is considered to have “**high influence**” in the Marvel Universe if they appear in the same comics as other characters (co-occurrence). Based on this, select the **10 individual characters** with the **greatest influence**.

- a. *Hint: You may want to consider the influence of the characters that a character co-occurs with.*

Part Three:

You are a **Supervillan** in the Marvel Universe, and you have created an evil plan to kill as many of the characters in the Universe as possible. In order to do this, you've secured a highly contagious and quite deadly virus. However; you only have enough of the virus to infect ten characters. **Which ten characters do you choose to infect, in order to inflict the most widespread deaths across the whole Marvel Universe?**



You'll need to sign up for a developer API key at <http://developer.marvel.com> (free). Once you have a key then the API documentation is at <http://developer.marvel.com/docs>

Note: we're looking for a command line tool with the "reports" just being written to stdout.

On Completion

Also write instructions on how you:

- install any dependencies your code requires
- how we compile and run your code

Constraints

- Use of third party libraries is ok; in the coding interview we'll be asking you about your choices

Guidance

- Build a data scraper to build a local cache of the data you need as one component then a reporting component, so you can run these independently.