Rally Ruby REST API Configuration Guide and add_test_cases_test_set.rb script usage

Introduction

The Rally REST API tool is built on a Ruby interface to the Rally REST web service API. This script is *not officially supported* and is *used at your own risk.*
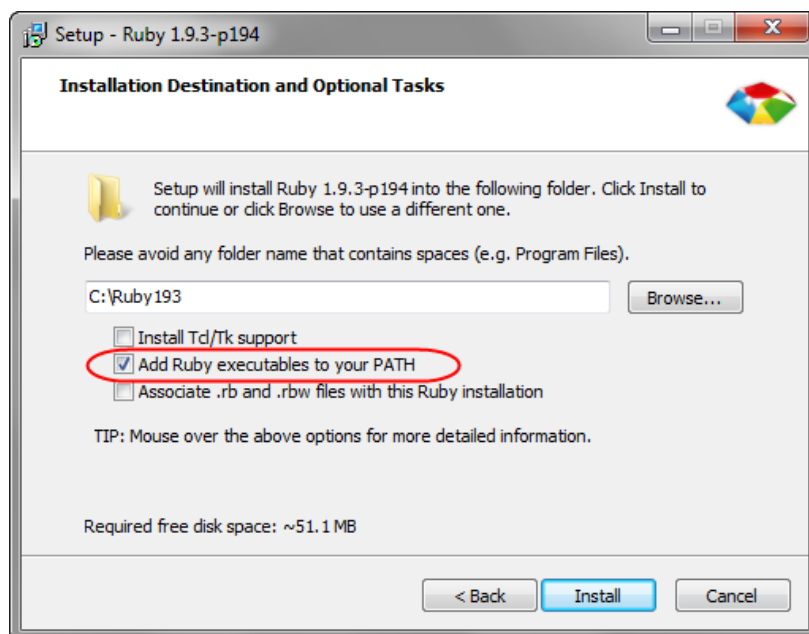
This document is composed of the following sections:

1. Installing Ruby on Windows
2. Proxy Setup
3. Configuring and Running the Add Test Cases to Test Set script

## 1. Installing Ruby on Windows

Install the Ruby 1.9.3 (preferable) Runtime Environment: http://rubyinstaller.org/downloads/

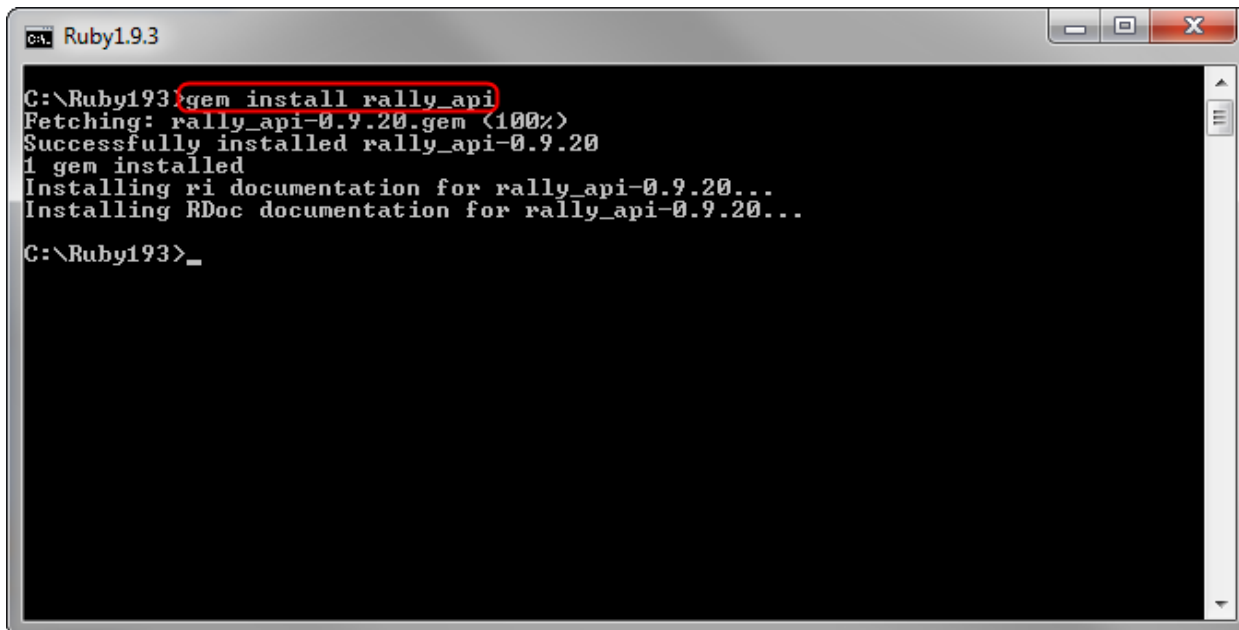1. During installation, please make sure to add the Ruby executable to your Path:

2. Open a command prompt window and go to the ruby directory that was created. In this example, Ruby was installed into C:\Ruby193:

   a. Click on your "Start" button, then enter cmd into the search dialog and hit Enter.
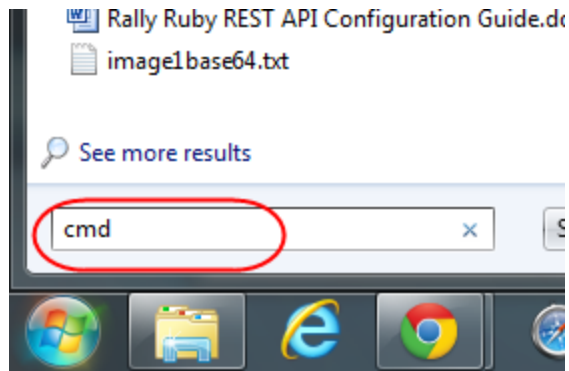
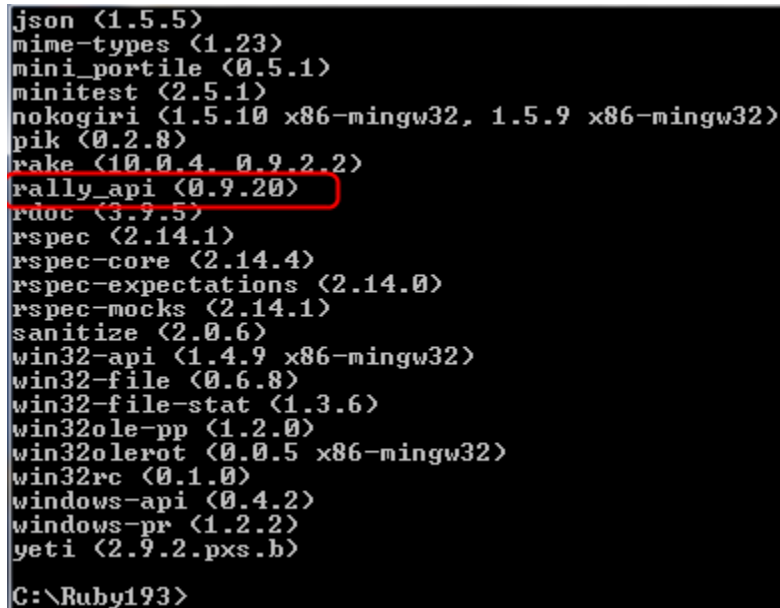3. The Command prompt window appears. Navigate to where you installed Ruby:
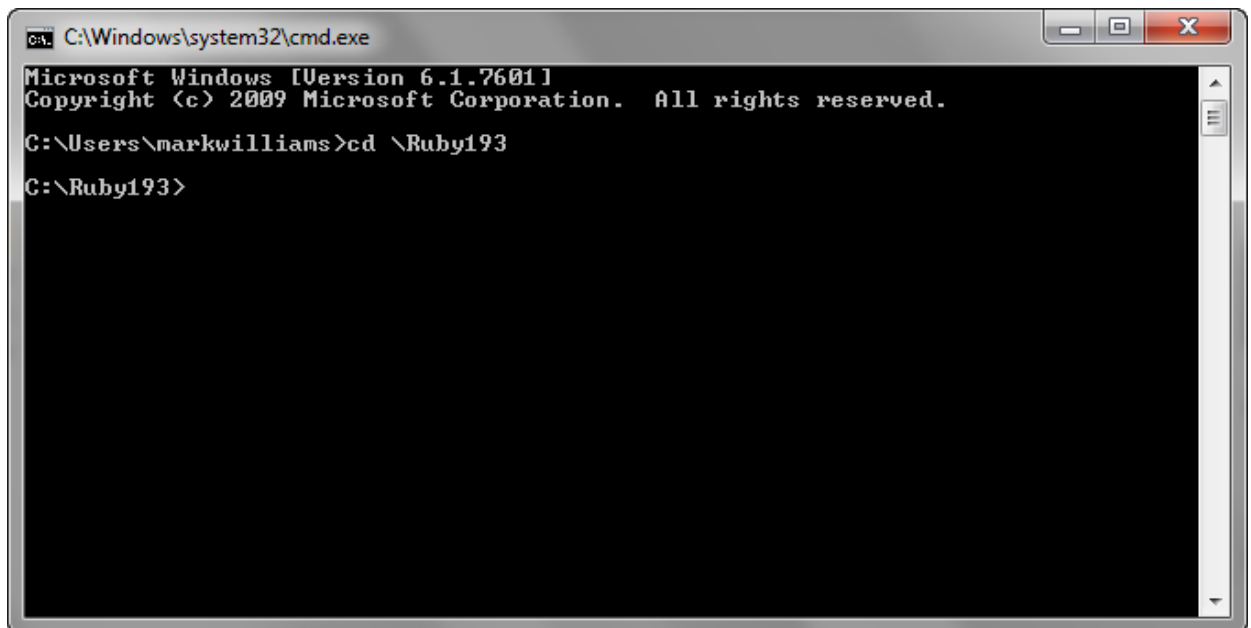
4. Install the rally_api gem. This will also install its dependent gems.

5. When finished, you can verify all RubyGems installed by typing "`gem list -l`":

2. Configuring a Proxy Server

1. If your company is behind a firewall or a proxy server, you may need to take additional steps in order to run Rally ruby scripting tools. To access the internet via a proxy-server using Windows, go to:

    Start -> Computer (Right Click) -> Properties:
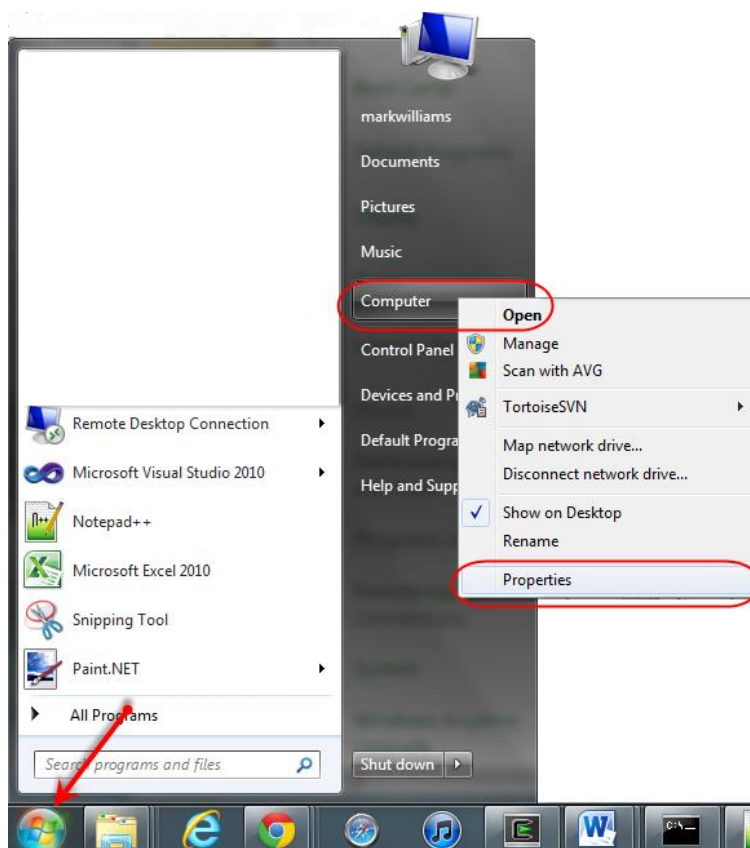
2. Advanced System Settings:
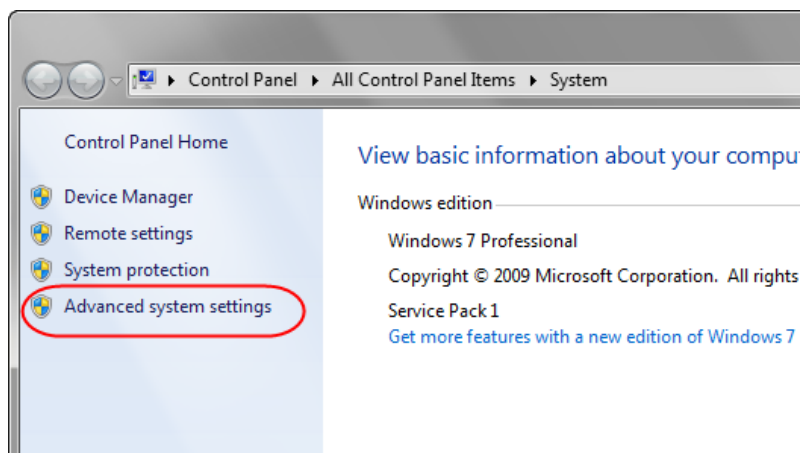
3. Environment Variables:
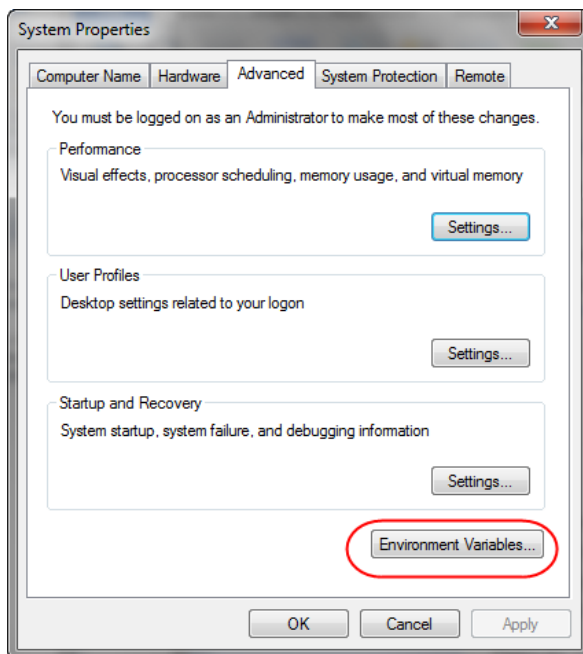
4. Use the New button to create a new environment variable:
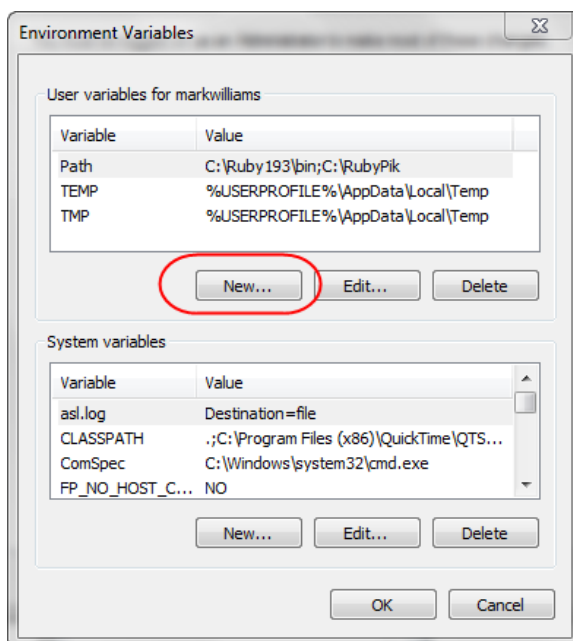
5. Create the following environment variables:

- **HTTP_PROXY**
- **HTTPS_PROXY**
- **FTP_PROXY**

The value for each of the 3 variables is *usually* the same and of the general format:
http://[name:password@]ipaddress:port/

6. Create HTTP_PROXY as an example:
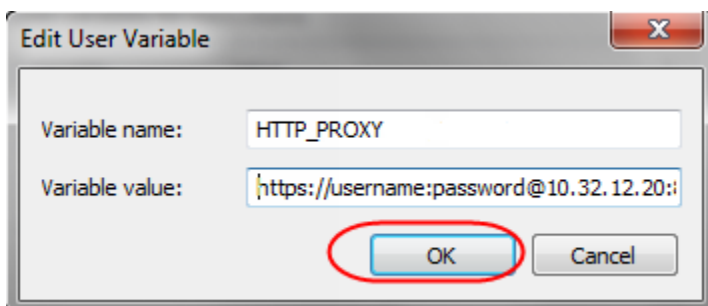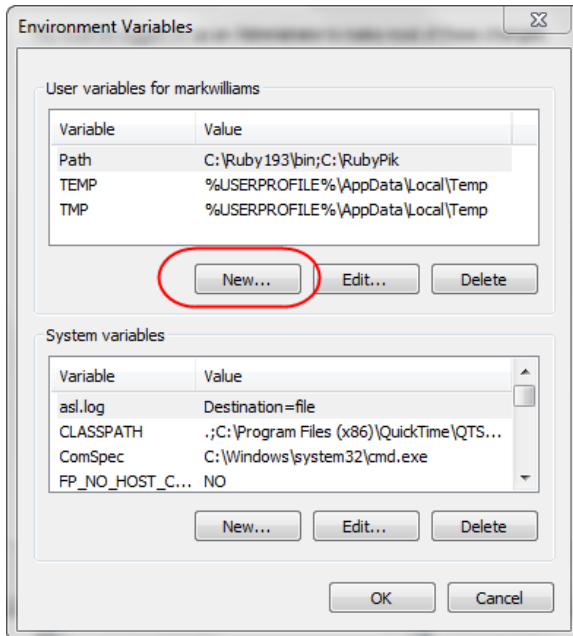
In this example you entered:

Variable name: HTTP_PROXY
Variable value: https://username:password@10.32.12.20:8080

The actual values of username, password, and the proxy server address:port (10.32.12.20:8080) are going to vary according to your environment. You may need to check with your IT department concerning the appropriate information.

7. Completed Environment Variable Entry:
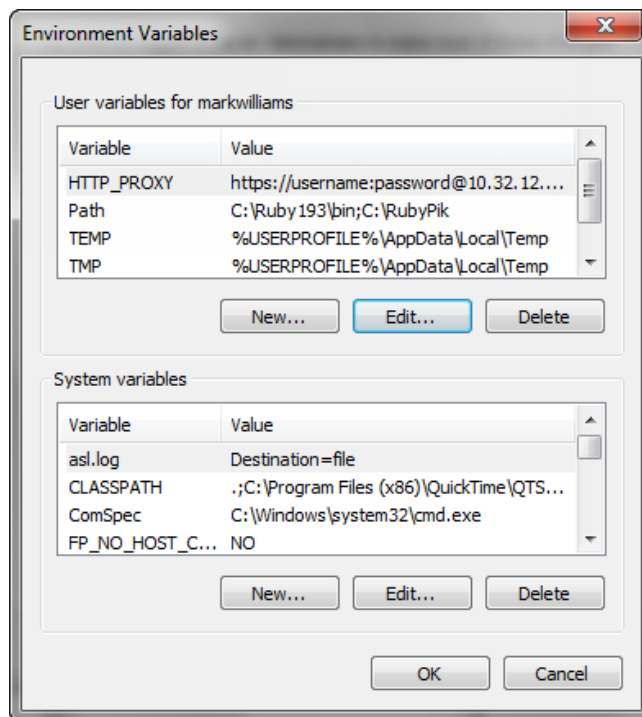
Note that you will have to open a **New Command Prompt window** after creating any environment variables in order for them to take effect in the Command prompt.

3. <u>**Configuring and Using the Add Test Cases to Test Set script**</u>

1. Create directory for script and associated files:

   C:\Users\username\Documents\Rally Add Test Cases to Test Set\

2. Download the script repository from Github using the "Download ZIP" button:

3. Using a text editor, customize the code parameters in the my_vars.rb file for your environment.

```
my_vars.rb:

$my_base_url        = "https://rally1.rallydev.com/slm"
$my_username        = "user@company.com"
$my_password        = "topsecret"
$my_workspace       = "My Workspace"
$my_project         = "My Project"
$wsapi_version      = "1.43"
$filename           = 'add_test_cases_to_testset.csv'
```

4. Create your Test Case to (new target) Test Set mapping file. The Test Cases and Test Sets of interest should reside in the same Project. Y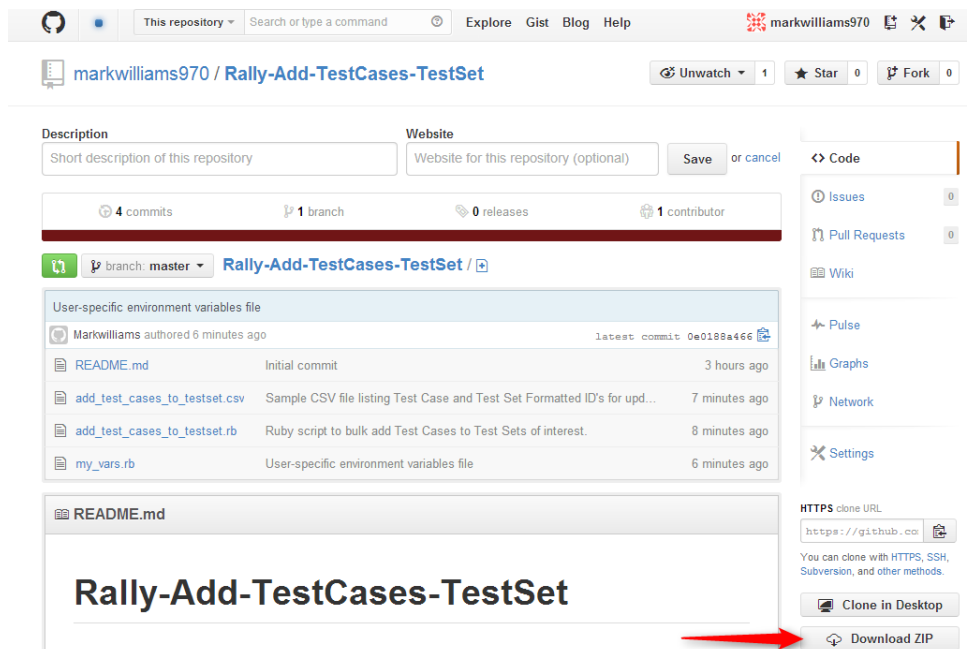ou can specify many different Target Test Sets within the same CSV file. It must be a plain text CSV file with the following format:

```
Test Case FormattedID,Test Case Name, Target Test Set FormattedID, Target
Test Set Name
TC327,TC07-012-006,TS11,Performance Load Tests
TC328,TC07-012-007,TS11,Performance Load Tests
TC329,TC07-012-009,TS11,Performance Load Tests
TC330,TC07-010-005,TS11,Performance Load Tests
TC331,TC07-010-008,TS11,Performance Load Tests
TC332,TC07-012-001,TS11,Performance Load Tests
TC333,TC07-010-009,TS11,Performance Load Tests
TC334,TC07-012-005,TS11,Performance Load Tests
TC335,TC07-010-000,TS11,Performance Load Tests
```

```
TC336,TC07-010-006,TS11,Performance Load Tests
TC337,TC07-012-000,TS12,Client Response Tests
TC338,TC07-010-001,TS12,Client Response Tests
TC339,TC07-010-003,TS12,Client Response Tests
TC340,TC07-012-008,TS12,Client Response Tests
TC341,TC07-012-002,TS12,Client Response Tests
TC342,TC07-012-004,TS12,Client Response Tests
TC343,TC07-012-003,TS12,Client Response Tests
TC344,TC07-012-007,TS12,Client Response Tests
TC345,TC07-010-002,TS12,Client Response Tests
TC346,TC07-010-004,TS12,Client Response Tests
TC347,TC07-010-007,TS12,Client Response Tests
```

5. _**Note:**_ The Test Case Name and Test Set Name Columns (Columns 2 and 4, above) are for user reference/convenience only, when tracking/building the CSV file. They are not used by the script in update operations.

6. _**Important:**_ _The way Rally's Webservices API works to assign Test Case to Test Sets involves adding a large array of Test Cases as an attribute to the Test Set. This can sometimes cause concurrency problems, especially if a Test Case that's included in an update operation like this gets changed or edited elsewhere during the update process. For this reason, it's recommended that you keep your batch sizes relatively small when running this script, and to run it during times when concurrent editing/updating is less likely to occur, if possible._

7. Run the script:

```
C:\> ruby add_test_cases_to_testset.rb
Adding Test Set TS8 to Test Set cache.
Caching Test Case TC349 for addition to Test Set TS8
Caching Test Case TC350 for addition to Test Set TS8
Caching Test Case TC351 for addition to Test Set TS8
Caching Test Case TC352 for addition to Test Set TS8
Caching Test Case TC353 for addition to Test Set TS8
Caching Test Case TC354 for addition to Test Set TS8
Caching Test Case TC355 for addition to Test Set TS8
Caching Test Case TC356 for addition to Test Set TS8
Caching Test Case TC357 for addition to Test Set TS8
Caching Test Case TC358 for addition to Test Set TS8
Caching Test Case TC359 for addition to Test Set TS8
Caching Test Case TC360 for addition to Test Set TS8
Caching Test Case TC361 for addition to Test Set TS8
Caching Test Case TC362 for addition to Test Set TS8
Caching Test Case TC363 for addition to Test Set TS8
Caching Test Case TC364 for addition to Test Set TS8
Adding Test Set TS9 to Test Set cache.
Caching Test Case TC365 for addition to Test Set TS9
Caching Test Case TC366 for addition to Test Set TS9
Caching Test Case TC367 for addition to Test Set TS9
Caching Test Case TC368 for addition to Test Set TS9
Caching Test Case TC369 for addition to Test Set TS9
```

```
Caching Test Case TC370 for addition to Test Set TS9
Caching Test Case TC371 for addition to Test Set TS9
Caching Test Case TC372 for addition to Test Set TS9
Caching Test Case TC373 for addition to Test Set TS9
Caching Test Case TC374 for addition to Test Set TS9
Caching Test Case TC375 for addition to Test Set TS9
Caching Test Case TC376 for addition to Test Set TS9
Caching Test Case TC377 for addition to Test Set TS9
Caching Test Case TC378 for addition to Test Set TS9
Caching Test Case TC389 for addition to Test Set TS9
Caching Test Case TC395 for addition to Test Set TS9
Test Set TS8 successfully added 16 Test Cases.
Test Set TS9 successfully added 16 Test Cases.
Finished!
```

8. ***Caution:*** This will update ALL Test Sets with the Test Cases noted in this script. Please be CAUTIOUS WHEN USING THIS SCRIPT, and double-check your work before running it.