

Instructions

You can take part in this challenge as a team or alone, you decide. You will gain points for each achievement and lose points for each hint bought.

You have 2 hours to create a Python script that downloads the HTML from http://www.mcast.edu.mt and identifies all the links in the page.

A link that fails to open for some reason is considered an error.

A link in the HTML can be found as follows: xxxxxxxhref="LINK_IS_HERE"xxxxxxxx Examples:

- type="text/css" href="/Portals/_default/Skins/MCAST/skin.css">
- </p
- Google

Scoring System

Below are the details of the points gained by completing each achievement.

Points	Achievement
100	Minimum Submission:
	Parse all the links in 1 HTML page, without crashing
	Display all the working links in the console
	 Display number of working links and errors as a summary
50	Parse all the links 2 levels deep
30	Parse more than 2 levels deep
30	Skip links that start with 'javascript:' and 'mailto:'
50	Expand relative paths, e.g.:
	/Portals/_default/default.css?cdv=50 becomes
	http://www.mcast.edu.mt/Portals/_default/default.css?cdv=50
30	Only investigate links that are under the domain www.mcast.edu.mt
30	Only count unique links, no duplicates
20	Save output to a text file (as well as printing it to console)
10	Meaningful variable and function names, commented code

Hints System

You can buy the hints below by 'paying' the respective amount of points.

Points	Hint
-20	How to get the HTML for a particular URL
-20	How to get all the links from an HTML string
-20	How to handle Errors (crashes)
-10	How to write to a text file