Chapter 4

Experience

Once again, we had a great experience working as a team. We split the work in three main tasks: write documentation, improve script to run tests, and write the 20 test cases left. Writing the tests cases was a little bit time consuming because it was hard to find functions that were neither too complicated or static (they can only be called inside the module where they were defined). We also changed our test cases output layout to a table view, so it's easier to read the information. By using the table view, the 25 test cases are shown in a cleaner view.

Test Cases

ID	Module	Function	Requirement	Driver	Arguments	Expected	Result
1	credential.c	credential_match	compares the protocol field of the credentials	test-credentialMatch Driver	"https example.com foo.git bob http example.com foo.git bob"	0	0
2	credential.c	credential_match	compares the host field of the credentials	test-credentialMatch Driver	"https example.com foo.git bob https otherExample.com foo.git bob"	0	0
3	credential.c	credential_match	compares the path field of the credentials	test-credentialMatch Driver	"https example.com foo.git bob https example.com bar.git bob"	0	0
4	credential.c	credential_match	compares the username field of the credentials	test-credentialMatch Driver	"https example.com foo.git bob https example.co foo.git mary"	0	0
5	credential.c	credential_match	returns 1 when every field of the credentials are equal	test-credentialMatch Driver	"https example.com foo.git bob https example.com foo.git bob"	1	1
6	url.c	is_urlschemechar	does not allow '+' as the first url character	test-urlSchemecharD river	"1 +"	1	0
7	url.c	is_urlschemechar	does not allow '-' as the first url character	test-urlSchemecharD river	"1 -"	0	0
7	url.c	is_urlschemechar	does not allow '.' as the first url character	test-urlSchemecharD river	"1 ."	0	0

9	url.c	is_urlschemechar	allows special characters in the url in positions that are not first one	test-urlSchemecharD river	"0 +"	1	1
10	url.c	is_urlschemechar	allows numbers in the first position of the url	test-urlSchemecharD river	"1/8/2015"	1	1
11	url.c	is_urlschemechar	allows numbers in the other positions of the url	test-urlSchemecharD river	"0 8"	1	1
12	url.c	is_url	verifies if url is not empty	test-isUrlDriver	WW WW	0	0
13	url.c	is_url	return 0 if the first character of the url is a special character(+)	test-isUrlDriver	"+https://myurl.com"	0	0
14	url.c	is_url	verifies if url has the pattern '://'	test-isUrlDriver	"https:myurl.com"	0	0
15	bisect.c	estimate_bisect_steps	returns 0 if n is less than 3	test-estimateBisectSt epsDriver	"2"	0	0
16	bisect.c	estimate_bisect_steps	returns the integer log e of n minus 1 ((logi n)-1) if (2^e < 3*(n - 2^e))	test-estimateBisectSt epsDriver	"10"	2	2
17	bisect.c	estimate_bisect_steps	returns integer log e of n if (2^e < 3*(n - 2^e))	test-estimateBisectSt epsDriver	"100"	6	6
18	color.c	git_config_colorbool	returns 0 if value is equal to 'never'	test-gitConfigColorbo olDriver	"core.color never"	0	0
19	color.c	git_config_colorbool	returns 1 if value is equal to 'always'	test-gitConfigColorbo olDriver	"core.color always"	1	1
20	color.c	git_config_colorbool	returns the automatic color(2) if the value is equal to 'auto'	test-gitConfigColorbo olDriver	"core.color auto"	2	2
21	color.c	git_config_colorbool	returns -1 if var and value are empty	test-gitConfigColorbo olDriver	"returns -1 if var and value are empty"	-1	-1
22	color.c	git_config_colorbool	returns the automatic color(2) if var is not empty, but value is empty	test-gitConfigColorbo olDriver	"core.color" ""	2	2
23	color.c	color_is_nil	returns 1 if color is nil	test-colorIsNil	"NIL"	1	1
24	color.c	color_is_nil	returns 0 if color is not nil	test-colorIsNil	"green"	0	0

25	commit.c	commit_list_count	returns 0 if commit list is empty	test-commitListCount	"0"	0	0	
			returns the number of items in the commit list					
26	commit.c	commit_list_count	if it is not empty	test-commitListCount	"4"	4	4	