SDET - Internship tasks - Solutions

1. Test function and create input/output data sets, describe which cases this data set will test:

Function description:

Find the length of the longest substring without repeating characters in the given string `s`.

Table of data sets:

No.	Input	Output	Remarks		
-	-	Final unique substrings:	count:	length:	-
1.		No input e	Without input - empty submit		
2.	а	[a]	1	1	
3.	ab	[ab]	1	2	
4.	abc	[abc]	1	3	
5.	abca	[abc, bca]	2	3	
6.	abcabcbb	[abc, bca, cab]	3	3	Example from task
7.	1234567890	[1234567890]	1	10	All different digits
8.	1234qwer1234	[1234qwer, 234qwer1, 34qwer12, 4qwer123, qwer1234]	5	8	Digits and letters
9.	123qweasdzxc456rt yfghvbn	[123qweasdzxc 456rtyfghvbn]	1	24	Many digits and letters
10.	!@#\$%^&*()_+[]{};':" ,.<>/?	[!@#\$%^&*()_+[]{};':",.<>/?]	1	26	Signs, characters
11.	16 j 8 ee j 75	[1 6, 8 e, j 7, 7 5]	4	3	Using "space" key
12.	bf2938f239.[]e[.[5. g?=,3-40,f,34,f- /[/- 43lv9f340 9fk3f[,34f349 fk3c9m				Checking maximal input, compiler (https://www.p rogramiz.com/j avascript/onlin e-compiler/) haven't printed all of output.
13.	bf2938f239.[]e[.[5. g?=,3-40,f,34,f-/[/- 43lv9f340 9fk3f[,34f349				String shorter than above, result the same.

Above data set can test various cases (user input):

- 1. Empty input.
- 2. Only letters input.
- 3. Only digits.
- 4. Mix of letters and digits.
- 5. Different signs and characters.
- 6. Using "space" key while typing.
- 7. Too big input.

There might be some variations of above test cases, but mostly they will be connected with those mentioned above.

2. UI testing (JS/TS)

Create test-cases for successful and unsuccessful login, and any additional test-cases you might think it would be good to add.

http://uitestingplayground.com/sampleapp

Test scenario	Test Case	Test Data	Expected Result	Actual result
Login functionality	Empty username and empty password.	Username: Password:	Invalid username/password	Invalid username/password
	Empty username and valid password	Username: Password: pwd	Invalid username/password	Invalid username/password
	Valid username and unvalid password.	Username: 1 Password:	Invalid username/password	Invalid username/password
	Valid username and valid password.	Username: 1 Password: pwd	Welcome, 1!	Welcome, 1!
	Reloading page in browser	Username: 1 Password: pwd	User still looged in.	User logged out.
	Typing to omany characters in "login box"	Username: 1111111111 1111111111 1111111111 111111	Response: too many characters typed in.	Welcome, 111111111111111111111111111111111111
	Checking if password is masked	Username: 1 Password: 11111111	Password is masked	Password was masked
	Checking if password can be copied	Username: 1 Password: 11111111	Password should not be allowed to be copied.	I could copy password.
	Checking	Username:	Welcome, 1!	User logged in or other

stil in a clik "fo and "ba	user is II logged after king orward" id ackward" browser	1 Password: pwd		response of being logged.
	icking: og out"	Username: 1 Password: pwd	User logged out.	User logged out.