Home Test

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1+2)

Test Scenario organized by Priority	Test Scenario	Input Data	Expected Output	Notes
T1	Simple case with lowercase letters	abcdexit	dcba	
T2	No characters before exit	exit|exitabc	(empty ""string)	
T3	No exit	abcde	(empty ""string)	
T4	Multiple exits	abcexitexithr	cba	Multiple exit sequences, only the first should be considered
T5	Mixed Case	aBcExIt	cBa	Testing case sensitivity of the exit sequence
T6	Exit with space	a bcexit	cba	
T7	Large input	a…(30,000) letters,followed by exit	The reverse of the 50,000 letters entered.	
T8	Numeric+ symbols input	123$%exit^	123$%	

3)

New requirement: the sequence of the characters will be returned in reverse when it meets the sequence "xit" instead of "exit"(outputs the one received until that moment in the reverse order).

1. Test to leave as they are: T3 as when the sequence "exit" can't be seen so it means the sequence "xit" is necessarily does not appear as well.

2. New test to add: I will add edge case to meet the new requirement

Test Scenario	Test Scenario	Input Data	Expected Output	Notes
T9	No characters before xit	xittb	(empty string)""	

3. test to delete: none of the existing tests need to be deleted as they still cover relevant scenarios, and the new requirement does not invalidate any of them.

4. Test to update: T1|T2||T4|T5|T6|T7|T8 so the expected output for each test scenario as described on the table will be printed as a consider of the word ("xit") and not "exit".

4)

1. Data generation tool: data generation tool or script to create synthetic data. This tool can generate random or patterned data that can be scaled up to the desired size.

2. avoiding infinite loops: need to ensure that the data does not contain patterns that might trigger infinite loops or excessive resource consumption- preventing the system from getting stuck during the load test.