

Test Plan Document

Objective

The objective of this test plan is to verify the functionality of the "Dead Ants Counter" script. This includes testing positive scenarios to ensure accurate counting of dead ants and negative scenarios to handle potential edge cases.

Test Scenarios

Positive Scenarios

Valid Ant Chain

Input: '...ant...ant..nat.ant.t..ant...ant..ant..ant.anant..t'

Expected Output: 6

Description: Test the script with a valid ant chain to verify that it correctly counts the number of dead ants.

Empty Ant Chain

Input: ''

Expected Output: 0

Description: Test the script with an empty ant chain to ensure it handles this scenario gracefully.

Single Ant

Input: 'ant'

Expected Output: 1

Description: Test the script with a chain containing only one ant to confirm it correctly counts a single dead ant.

Negative Scenarios

No Ants in the Chain

Input: '...nat...t..'

Expected Output: 0

Description: Test the script with a chain that does not contain any ants to ensure it handles this scenario and does not produce errors.

Invalid Ant Chain

Input: 'invalid_ant_chain'

Expected Output: Error

Description: Test the script with an invalid ant chain (not following the expected pattern) to confirm that it handles this situation and provides an error message.

Undefined Input

Input: undefined

Expected Output: Error

Description: Test the script with undefined input to verify that it handles this scenario and provides an error message.