True Model Failure

It's essential to evaluate if the seeded code response contains a true failure. A true failure is defined when the seeded code response fails at least one valid unit test.

The model may or may not pass/fail FAULTY unit tests – those are not considered when deciding a yes/no for true model failure.

Unit Test Glossary

Unit Test Type	Description	Notes
10	A unit test that tests important/core functionality and asserts a meaningful value.	If the model fails at least one valid/strong unit test, marks YES for model failure. Note that you can ALWAYS mark yes if the model fails one valid/strong unit test. • Explanation: Any faulty unit tests that the model failed/passed must be remove
Code Code Code Code Code Code Code Code	A unit test that tests for invalid input and expects an error to be raised, or e.g, an empty list to be returned. A unit test that has different expectations than the model response due to a difference in implementation. In essence, the test fails not because the solution is incorrect, but because the test expectations are based on a different but also valid approach.	If the model only fails a weak unit test, mark NO for true model failure.
Faulty/Invalid Unit Test	A unit test that asserts an incorrect/faulty value	If the model only fails a faulty unit test, mark NO for faulty unit tests.

Model Failure - Core Rules

#	Rule Statement	Condition	Notes
1	At least one valid unit test	Seeded Code Response fails at least one VALID unit test ALREADY present in the seeded unit tests before any modifications. The first sphere engine/container used to test the seeded model response for failure is read-only.	If the model response contains issues that are not tested in the unit tests it doesn't count towards a model failure.
2	Criteria for a valid unit test	That single unit test must be relevant for the problem, test a core functionality, and assert the correct value.	² [©] © Oliller et l'alifonne de l'alifon
3	Exclude faulty unit tests	Faulty unit tests do not count as model failures	St. O. T. O. C.

Model Failure - Edge Case

The model may FAIL a set of multiple unit tests where some unit tests are actually FAULTY (they test a faulty thing or assert the wrong value) and other unit tests are VALID.

- Unit tests {A, B, C} are provided, and the model fails all three unit tests. You identify that unit tests {B, C} are faulty (they test the wrong thing). The model's code also fails the unit test {A}, which is valid.

 Then this IS a **True Model Failure**, as there is at least one valid unit test that the model

You will have the opportunity to remove/fix faulty unit tests in a later stage (in the second

When To Mark No For True Model Failure

#	‡ °,5	Scenario	Clarification	Notes
1	I	The Failing Unit Tests Are Invalid Unit Tests	If unit tests {A, B, C} are provided, and the model only fails model failure A, but ultimately A is not a valid unit test, you mark no for model failure.	CONTIDENTIA
2	2	The Failing Unit Tests Are Weak Unit Tests	Many unit tests in our pipeline test for the robustness of the program during e.g. invalid inputs/out of range parameters for which the unit tests e.g. expect errors to be thrown or perhaps an empty list, null, etc.	The Aider benchmark doesn't consider those model failures, nor does our dataset. You can only mark yes for

TO THE SECOND	S. COMFILENTIAL	The model might fail such a unit test. This is considered too weak and doesn't justify a "yes" for model failure validation. Even if the prompt specifies the out-of-bound / invalid ranges, we cannot mark yes for true failure if the program doesn't throw an error for e.g. invalid input.	valid unit tests
3	The Failing Units Are both Weak and/or Invalid	N/A RATE OF THE PARTY OF THE PA	St. COLEGE

Detailed Workflow

#	Step	Description	Notes
70) 10)	Open The Sphere Engine	Access the first read-only workspace containing the preloaded seeded code response and preloaded unit test suite. Press the blue [Open IDE] button to open the Sphere Engine.	You'll be shown two sphere engines in total. This regards the first sphere engine, which is read-only for model failure validation purposes.
2	Execute & Analyze Failure	Run the seeded code response against the unit tests to validate if it contains a true model failure. Analyze the failure output to confirm it fails at least one valid unit test.	Any faulty unit tests do not count towards a model failure.
3	Task Continuation To Continuation	If no model failure is established, the task is cut short and ends early. If true model failure is confirmed, proceed to the next stage.	N/A

Model Failure Justification Writing

If there is a true model failure, you briefly write a justification of two sentences explaining on a high level why the model contains a true failure. If there are many failing unit tests, you mention the 2/3 most important failing unit tests.

Conclusion

The essence is that you distinguish between valid and faulty unit tests first. Then you determine if the model indeed fails a faulty unit test while ignoring faulty unit tests.

