**Class-runnable:**

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| 62b45df15108cfac7f2109dd | Zero-shot, CoT, Persona, Package | AttributeError - Since signature is not present (does not include self, ), the function does not know that the function is a part of a class. |
| 62b45e23e0d4551b0392c90a | Zero-shot, CoT, Persona | TypeError - since signature is not provided, the LLM generated a function with the wrong number of arguments. |
| 62b8d23e48ba5a41d1c3f49e | Few-shot, CoT, Persona, Package | TypeError: CoT overrides the constrain and includes the class and examples to test the function, in the example it tries to create an instance of the class and it provides arguments while it doesn't take any. |
| 62b463153879012d194814a1 | Zero-shot, CoT, Package, Signature | AttributeError - The CoT triggered the LLM to create ignore the constraint in the prompt to generate only a function, instead, it generated the function in a sample class, resulting the function to be in a class within a class. Was solved with CoT is excluded. |
| 62b46740d2f69a53b466171a | Zero-shot, CoT, Persona, Package | AssertionError - The original prompt is vague mentioning a "default value", so the LLM simulates a default value, while when Few-shot is included, it picks it up from the examples. |
| 62b87af09a0c4fa8b80b34f1 | Zero-shot, CoT, Persona, Package | AttributeError - Since signature is missing, the LLM produces a function with the wrong number of arguments. |
| 62b87b4f9a0c4fa8b80b3581 | Zero-shot, CoT, Persona, Package | AttributeError - CoT overrides the constraint, making the function as a part of a class within a class. |
| 62b87b859a0c4fa8b80b35d7 | Zero-shot, CoT, Persona, Signature | AttributeError - CoT overrides the constraint, making the function as a part of a class within a class. |
| 62b87b989a0c4fa8b80b35ee | Zero-shot, CoT, Persona | AttributeError - No signature, the LLM provides a function with the wrong number of arguments. |
| 62b8a4a4755ee91dce50a3d3 | Few-shot, Persona | ImportError - wihtout Packages it hallucinates packages that do not exist. The problem is solved when the packages are specified. |
| More options:   |  | | --- | | 62b8b416eb7e40a82d2d1129 | | 62b8d22a48ba5a41d1c3f47d | | 62b8d22f48ba5a41d1c3f488 | | 62b8d23748ba5a41d1c3f497 | | 62b8d23a48ba5a41d1c3f499 | | 62b8d23c48ba5a41d1c3f49b | | 62b8d23e48ba5a41d1c3f49e | |  |  |

**File-runnable**

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| 62b869ebb4d922cb0e688cc6 | Zero-shot, CoT, Signature | AttributeError - The LLM gets the signature with the arguments, but it thinks one argument is a dict isntead of a list. This problem is solved with Few-shot. |
| 6306292a52e177c0ba469f41 | Zero-shot, CoT, Persona, Package | TypeError- Since the signature is missing the generated LLM function is missing a required positional argument |
| 62b8b58deb7e40a82d2d1269 | Zero-shot, CoT | AssertionError - the function uses objects from a local dependecy, when the packages and signature are specified, the LLM could import a helper function and pass the test. (IMO the LLM is cheating, it is basically importing a function with the exact name from the local package) |
| 62b8bbbfe0d34b282c181210 | Zero-shot, CoT, Persona, Package | TypeError - without the signature, the LLM did not know what optional arguments are there. |
| 62b87d24d292efb640a55670 | Zero-shot, CoT, Persona, Signature | AssertionError - The original prompt is vague mentioning a "default value", so the LLM simulates a default value, while when Few-shot is included, it picks it up from the examples. |
| 62b8b3d5eb7e40a82d2d1110 | Zero-shot, CoT, Persona, Package | TypeError - without the signature, the LLM did not know what arguments the function takes, missing one positional argument. |
| 62b463163879012d194814a4 | Zero-shot, CoT, Persona, Package and Zero-shot, CoT, Package, Signature | AssertionError - the mention of packages limited the LLM, the LLM did not know how to create the correct function. Without the specified packages, the LLM could find an alternative solution using another package that is not used in the groundtruth, but it works. |
| 62b87b199a0c4fa8b80b354e | Zero-shot, CoT, Persona, Package, Signature | AssertionError - the original prompt has a vague requirement "check if it can be converted" without specifying the conditions, this was solved with Few-shot, where from the examples the LLM could pick up the different conditions. |
| 62b86a4fb4d922cb0e688cf8 | Zero-shot, CoT, Persona, Package | AssertionError - the LLM did not know the type of output based on behaviour, for incorrect behaviour it was returning False while it should raise an error. This was solved with Few-shot. |
| 62b8bbbce0d34b282c18120d | Few-shot, CoT, Persona, Package, Signature | AttributeError - CoT overrides the constraint, making the function as a part of a class within a class. |
| More options:   |  | | --- | | 62b463153879012d1948149c | | 62b869eab4d922cb0e688cbf | | 62b86a9eb4d922cb0e688d25 | | 62b87b4f9a0c4fa8b80b3580 | | 62b8b3d4eb7e40a82d2d110f | | 62b8b4baeb7e40a82d2d1136 | |  |  |

**Plib-runnable**

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| 6306292152e177c0ba469f0d | Zero-shot, CoT, Signature | AssertionError - the LLM generates a function with a default value returned when an Exception is triggered, the LLM did not know the format an attribute of the input, it hallucinates it. The problem is solved with Few-shot when the complete format is present in the examples. |
| 6306298b52e177c0ba469fdc | Zero-shot, CoT, Signature | AssertionError - While the output type is correct, the format is not. This is solved with Few-shot. |
| 62b89640755ee91dce50a114 | Zero-shot, CoT, Persona, Signature | TypeError - The Signature introduced a variable (function name) with no specification and the LLM did not know what arguments it takse. This problem was solved when Packages were specified (six), and the LLM could understand that args\*\* and kwargs\*\* are needed since these two arguments are common when working with six library to make the code usable for both python 2 and 3. |

**Project-runnable**

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| 6306092d73426c38ae68ad08 | Few-shot, CoT, Persona, Package, Signature | TypeError: CoT overrides the constrain and includes the class and examples to test the function, in the example it tries to create an instance of the class and it provides arguments while it doesn't take any. |
| 63060b1a73426c38ae68ad3e | Few-shot, CoT, Persona, Package, Signature | TypeError - the error itself does not have anything to do with the prompt, but in the packages it says that the function does not use any packages, but only because it uses helper functions that import inside them. The problem was solved when the packages were removed and the LLM had more flexibility to choose what package is suitable to use. |
| 6306292252e177c0ba469f11 | Zero-shot, CoT, Persona, Package, Signature | AttributeError - he packages it says that the function does not use any packages, but only because it uses helper functions that import inside them. This caused the LLM to hallucinate some helper functions and access them through the input variable. |
| 630629d052e177c0ba46a0a1 | Zero-shot, CoT, Persona, Signature | TypeError - the input and output format were not known to the LLM without Few-shot. |

**Self-contained**

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| 62b45e135108cfac7f2109f4 | Few-shot, CoT, Package, Signature and Few-shot, CoT, Package and other … | Attribute when CoT, Type when Signature is missing, Value and Name errors too. |
| 62b8d22a48ba5a41d1c3f47e | Zero-shot, CoT | AttributeError - The original prompt mentions that the function is a part of a class, with only CoT, there were little details, so the LLM hallucinates a variable assuming that it is a part of the class i.e., self.store. The problem was solved with Signature, where the LLM could use one of the arguments to complete the logic instead of hallucinating a variable that belongs to the class. |
| 62b8a4a4755ee91dce50a3d2 | Everything besides Few-shot, CoT, Persona, Package, Signature | It produced different error types: Attribute when CoT, Type when Signature is missing, Value and Name errors too. One interesting case is that when Few-shot existed but not CoT in one instance, the LLM included the examples as hardcorded parts in the logic of the function. |
| 62b45679d7d32e5b55cc83a9 | Zero-shot, Persona, Signature | AssertionError - While the content of the output is correct, the format is wrong. This was solved when Few-shot was specified and the LLM could detect the format from the pattern of the input/output examples. |
| 62ece4982e6aefcf4aabbd62 | Zero-shot, Persona | AssertionError - While the logic was correct, the format was underspecified. This was solved with Few-shot. |
| 62b87af69a0c4fa8b80b351a | Zero-shot, CoT, Persona or Zero-shot, Persona, Signature | TypeError when no Signature and AttributeError when CoT returns the whole class. |
| 62ece4982e6aefcf4aabbd66 | Zero-shot, CoT, Package | TypeError - wrong number of positional arguments when no signature. |
| 62b438b666fea644fe22cc72 | Zero-shot, CoT, Package and others … | AssertionError - perhsps it was not related to the prompt but the non-deterministic nature of LLMs. The function is complex and it contains a subfunction and could be generated by functions that have different combinations with no pattern observed among them. |
| 62ece4982e6aefcf4aabbd63 | Few-shot, Persona, Signature and others. … | AssertionError - perhsps it was not related to the prompt but the non-deterministic nature of LLMs. The function could be generated by functions that have different combinations with no pattern observed among them. |
| 62b8b559eb7e40a82d2d11f8 | Everything besides few-shot only | AssertionError - perhsps it was not related to the prompt but the non-deterministic nature of LLMs. There was only one prompt that could solve it, which was "Few-shot" only. |
| More options:   |  | | --- | | 62b45e165108cfac7f210a17 | | 62b86729b4d922cb0e688c2f | | 62b87d24d292efb640a5566d | | 62b8a7b2755ee91dce50a4a7 | | 62b8d22948ba5a41d1c3f47c | |  |  |

**Slib-runnable**

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| 62b463153879012d1948149b | Zero-shot, Persona, Package and Zero-shot, Persona, CoT | AssertionError - the function is actually correct. However, with no Signature provided, the LLM mixed the order of two positional arguments. |
| 62b8b3d4eb7e40a82d2d110d | Zero-shot, Persona, Signature and Fewshot, CoT, Signature | AssertionError - the original prompt is vague, it mention that it follows "certain conditions" wihtout specifying them. These conditions could be picked up by the LLM with the Few-shot examples are provided. |
| 62b8d27a48ba5a41d1c3f4c6 | Zero-shot, Persona and Zero-shot, Package and Zero-shot and Few-shot, CoT, Persona, Package and Few-shot, CoT, Persona, Signature and Few-shot, CoT, Persona and … | AssertionError - perhsps it was not related to the prompt but the non-deterministic nature of LLMs. The function is complex and it contains a subfunction and could be generated by functions that have different combinations with no pattern observed among them. |