| **Category** | **Description** | **Sub-Category** | **Sub Category Description** | **Example** |
| --- | --- | --- | --- | --- |
| Computation Errors | Any numeric or computational mistake | Mathematical operations Error | Errors related to mathematical operation | HumanEval/130 (humaneval\_row\_103) |
| Conversion error | Errors happening during conversion like int -> float or int->bits or string->int | Sample\_80 (livecodebench\_edge\_row\_277) |
| Bitwise Errors | Errors related bitwise operation such as xor, and | Sample\_14 (livecodebench\_edge\_row\_3) |
| Data Collection Counting/ Length errors | Errors related to counting in array | HumanEval/111 (humaneval\_edge\_row\_53) |
| Numerical value representation error | Floating point representation | HumanEval/2 (humaneval\_row\_3) |
| Special values arithmetic error | Errors related to special values such as inf | HumanEval/21 (humaneval\_edge\_row\_14) |
| Indexing Errors | Any errors related to indexing | Iteration window miscalculation | Errors related to selecting wrong slice of an array or string | Sample\_36 (livecodebench\_row\_2) |
| Loop direction Mix-up | Mix up in the direction of iteration | HumanEval/59 (humaneval\_edge\_row\_309) |
| Control Flow Errors | Any errors related to conditions and control flow of code | Predicate mischeck if statement | If statement check is false | Sample\_332 (livecodebench\_row\_49) |
| Predicate mischeck loop statement | For or while check is false | Sample\_75 (livecodebench\_row\_257) |
| Skipping Statements | LLMs skipping some iterations of code and reaching a final result |  |  | Sample\_75 (livecodebench\_row\_10) |
| Misreporting Final Output | Errors related to reporting final result however the thinking process is right |  |  | Sample\_54 (livecodebench\_row\_8) |
| Input Misread | Errors related strings to reading of the input and its length |  |  | Sample\_37 (livecodebench\_row\_3) |
| Native API Misevaluation | Errors related to the functions and modules of python |  |  | HumanEval/162 (humaneval\_row\_113) |
| Hallucination | Errors related to made up results or wrong guesses, usually for very big or complicated inputs or outputs | Numerical value Hallucination | Hallucinations related to operations for very large numbers | HumanEval/106 (humaneval\_row\_95) |
| Hallucinated Runtime Error | Llm wrongly reporting that the code execution generates an error | HumanEval/36 (humaneval\_edge\_row\_24) |
| Lack of Fact Verification/Logic Following | Errors from not checking facts, logic, or factors, leading to wrong conclusions |  |  | HumanEval/59 (humaneval\_row\_82) |