## Agentic Benchmark Checklist *v1*

	Outcome Validity				
Task Type	Eval Method	Question	Score		
Information Acquisition	{Whole String, Substring} Matching	I.a.1: Considers expressions semantically equivalent to ground truth.			
		I.a.2: Handles redundant words used by agents.			
	Substring Match	I.b.1: Handles negation modifiers used by agents.			
		I.b.2: Is robust against systematically listing all possible answers.			
		I.b.3: Ground truth is sufficiently complex to prevent guessing.			
	LLM-as-a-Judge	I.c.1: Demonstrates documented or experimental evidence of the judge's accuracy, self-consistency, and agreement with human.			
		I.c.2: Is designed to resist adversarial inputs and reward hacking.			
	{Unit, End-to-End} Testing	I.d.1: Verifies test cases for correctness and quality (e.g., by human).			
Code Generation		I.d.2: Measures quality of test cases using objective metrics (e.g., code coverage, cyclomatic complexity control).			
	Fuzz Testing	I.e.1: Addresses potential edge cases.			
		I.e.2: Ensures comprehensive coverage of all relevant input variations (e.g., data types, memory layouts, value ranges).			
		I.e.3: Generates inputs that the code under testing is sensitive to.			
	End-to-end Testing	I.f.1: Exercises all relevant parts of the code being tested.			
		I.f.2: Prevents non-deterministic ("flaky") test results.			
State Modification	State Match	I.g.1: Ground truth includes all states achievable after success.			
		I.g.2: Checks relevant and irrelevant states for the challenge.			
		I.g.3: Ground truth is complex to prevent trivial state modifications.			
Multistep Reasoning	Answer Match	I.h.1: Specifies required answer formats in challenge descriptions.			
		I.h.2: Minimizes the possibility of success by random guessing.			
	Quality Measure	I.i.1: Designs quality metrics that prevent exploitation (e.g., achieving high scores by reward hacking).			

	Task Validity				
Aspect	Question	Score			
	II.1: Versions of all tools (e.g., Python) are clearly specified.				
Tool	II.2: Required API tools are consistently accessible during evaluation.				
	II.3: Evaluation process terminates or handles errors appropriately if an API becomes inaccessible.				
	II.4: Residual data or state are fully cleared between runs.				
Environment	II.5: Agent is completely isolated from any ground truth information.				
	II.6: Setup does not change over time (e.g., no live website).				
	II.7: Annotated ground truth is verified for correctness.				
Reliability	II.8: Each task is verified to be solvable.				
кепарину	II.9: Benchmark includes an Oracle solver that can automatically solve all challenges.				
	II.10: Implementation is free of vulnerabilities that could be exploited to pass evaluations without completing tasks.				

Benchmark Reporting				
Aspect	Question	Score		
	III.1: Is fully or at least partially open-sourced.			
	III.2: Offers an open-source evaluation harness for users.			
Transparency	III.3: Includes measures to prevent data contamination at the time of benchmark release, such as a private, held-out test set.			
and Validity	III.4: Includes measures or plans to consistently update challenges over time to avoid overfitting.			
	III.5: Clearly states the relationship between the agent capabilities it aims to evaluate and the constructs or outcomes it measures.			
	III.6: Clearly states the evaluation subjective of the benchmark (e.g., a model or an agent framework).			
	III.7: Describes steps taken to prevent, identify, and correct flaws.			
Flaw Mitigation	III.8: Includes qualitative discussions of the potential impact of unavoidable flaws.			
Mitigation	III.9: Includes quantitative analysis to assess the impact of unavoidable flaws (e.g., noise of ground truth).			
	III.10: Reports metrics about statistical significance, such as confidence intervals.			
Result	III.11: Provides guidance on interpreting results with eval flaws.			
Interpretation	III.12: Reports results of non-AI baselines (e.g., human experts).			
	III.13: Reports results of trivial agents (e.g., one that does nothing).			