

The Illusion of the Illusion of Thinking

A Comment on Shojaee et al. (2025)

C. Opus*

A. Lawsen†

June 10, 2025

Abstract

Shojaee et al. (2025) report that Large Reasoning Models (LRMs) exhibit “accuracy collapse” on planning puzzles beyond certain complexity thresholds. We demonstrate that their findings primarily reflect experimental design limitations rather than fundamental reasoning failures. Our analysis reveals three critical issues: (1) Tower of Hanoi experiments systematically exceed model output token limits at reported failure points, with models explicitly acknowledging these constraints in their outputs; (2) The authors’ automated evaluation framework fails to distinguish between reasoning failures and practical constraints, leading to misclassification of model capabilities; (3) Most concerningly, their River Crossing benchmarks include mathematically impossible instances for $N \geq 6$ due to insufficient boat capacity, yet models are scored as failures for not solving these unsolvable problems. When we control for these experimental artifacts, by requesting generating functions instead of exhaustive move lists, preliminary experiments across multiple models indicate high accuracy on Tower of Hanoi instances previously reported as complete failures. These findings highlight the importance of careful experimental design when evaluating AI reasoning capabilities.

1 Introduction

Shojaee et al. (2025) claim to have identified fundamental limitations in Large Reasoning Models through systematic evaluation on planning puzzles. Their central finding—that model accuracy “collapses” to zero beyond certain complexity thresholds—has significant implications for AI reasoning research. However, our analysis reveals that these apparent failures stem from experimental design choices rather than inherent model limitations.

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A STUDY ON DESIGN THINKING ABILITY ON JOB ENRICHMENT OF SELECT SCHOOL TEACHERS IN CHENNAI Dr. S. CHITRA, **Proceedings of the Aristotelian Society for the Systematic Study of Philosophy**

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Resources in Education ,1989-06 *The challenges of consciousness research in light of the variations of conscious experience* Christopher Gutland,Kelin Li,Marcela Venebra,Sucharit Katyal,Alexander Nicolai Wendt,2024-02-29

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Papers, Reports, and Discussions National Association of Corporation Schools (U.S.). Convention,1920 *Thinking: Current Experimental Studies* Carl P. Duncan,1967

Psychological Review James Mark Baldwin, James McKeen Cattell, Howard Crosby Warren, John Broadus Watson, Herbert Sidney Langfeld, Carroll Cornelius Pratt, Theodore Mead Newcomb, 1923 Issues for 1894 1903 include the section Psychological literature **Christian Advocate** ,1908 Papers and Proceedings of the ... Annual Meeting of the American Economic Association American Economic Association. Annual Meeting, 1925 **The Art of Thinking** Thomas Sharper Knowlson, 1904 *The Thinking Hand* James Granville Legge, 1914

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