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Checklist

1. For all authors...
 - (a) Do the main claims made in the abstract and introduction accurately reflect the paper’s contributions and scope? [\[Yes\]](#)
 - (b) Did you describe the limitations of your work? [\[Yes\]](#) See Section 6 and Appendix A.2.
 - (c) Did you discuss any potential negative societal impacts of your work? [\[Yes\]](#) We don’t expect negative societal impacts as a direct result of the contributions in our paper. One consideration, however, is that generated chain of thought is not always factual, which is noted as a limitation in Appendix D.1 (and note that we do not suggest using such chains of thought in a factual manner or in any real-world scenario).
 - (d) Have you read the ethics review guidelines and ensured that your paper conforms to them? [\[Yes\]](#)
2. If you are including theoretical results...
 - (a) Did you state the full set of assumptions of all theoretical results? [\[N/A\]](#)
 - (b) Did you include complete proofs of all theoretical results? [\[N/A\]](#)
3. If you ran experiments...
 - (a) Did you include the code, data, and instructions needed to reproduce the main experimental results (either in the supplemental material or as a URL)? [\[Yes\]](#) We included inputs, outputs, and targets for LaMDA and GPT-3 in the supplementary material. Although we use proprietary models, we GPT-3 results are fully reproducible. Reproducibility is further discussed in Appendix E.1.
 - (b) Did you specify all the training details (e.g., data splits, hyperparameters, how they were chosen)? [\[Yes\]](#) Data splits were specified, N/A for hyperparams.
 - (c) Did you report error bars (e.g., with respect to the random seed after running experiments multiple times)? [\[Yes\]](#) Standard deviation for multiple seeds using LaMDA 137B, where each seed is a different random order of exemplars, is given in Table 6 and Table 7.
 - (d) Did you include the total amount of compute and the type of resources used (e.g., type of GPUs, internal cluster, or cloud provider)? [\[Yes\]](#) Type of resources are described in Appendix E.2, though we did not estimate the total amount of compute.
4. If you are using existing assets (e.g., code, data, models) or curating/releasing new assets...
 - (a) If your work uses existing assets, did you cite the creators? [\[Yes\]](#) We used two models that we anonymized based on the recommendation of the NeurIPS chairs. These models will be cited in the camera-ready version of the paper.
 - (b) Did you mention the license of the assets? [\[Yes\]](#) See Appendix E.3.
 - (c) Did you include any new assets either in the supplemental material or as a URL? [\[Yes\]](#) The coinflip and last letter concatenation datasets are the only new assets, and they are given in the Supplementary Materials.
 - (d) Did you discuss whether and how consent was obtained from people whose data you’re using/curating? [\[N/A\]](#) No human data collected.
 - (e) Did you discuss whether the data you are using/curating contains personally identifiable information or offensive content? [\[N/A\]](#) No human data collected.
5. If you used crowdsourcing or conducted research with human subjects...
 - (a) Did you include the full text of instructions given to participants and screenshots, if applicable? [\[N/A\]](#)
 - (b) Did you describe any potential participant risks, with links to Institutional Review Board (IRB) approvals, if applicable? [\[N/A\]](#)
 - (c) Did you include the estimated hourly wage paid to participants and the total amount spent on participant compensation? [\[N/A\]](#)