509 A LOFT Dataset Creation

510 A.1 Dataset Selection

Text Retrieval & RAG We test single-document retrieval on a representative subset of the BEIR 511 benchmark [47], prioritizing datasets with high-quality ground truth labels. We also include Top-512 iOCQA [2], which is a multi-turn conversational retrieval dataset. We measure performance on 513 single-document retrieval using Recall@1. Additionally, we test multi-document retrieval on Hot-514 PotQA [54], MuSiQue [48], QAMPARI [35], where a set of documents must be retrieved to answer 515 the query. The evaluation metric for multi-document retrieval is mRecall@k, which gives a score 516 of 1.0 if all k gold set items are retrieved in top-k and 0.0 otherwise. When creating the LOFT 517 version of the multi-document retrieval datasets, we limit the number of relevant documents per 518 query to k = 2, 5, 5, and 3 for HotPotQA, MuSiQue, QAMPARI, and QUEST, respectively, and the 519 corresponding k's are used for mRecall@k (e.g. HotPotQA uses mRecall@2). 520

Our RAG task contains subsets of retrieval datasets, which have phrase-level answer annotations: Natural Questions, TopiOCQA, HotPotQA, MuSiQue, QAMPARI, and QUEST. We use subspan exact match (EM) [1] for evaluating performance of all the datasets. In case of multi-answer datasets (i.e. QAMPARI, QUEST), we first match predicted answers to gold standard answers based on whether they overlap [13] via linear sum assignment algorithm. We then give full credit if every gold answer has a perfect match with aligned predicted answers.

Visual Retrieval We employ four diverse visual benchmarks: Flickr30k [55] and MSCOCO [31] for text-to-image retrieval; MSR-VTT [53] for text-to-video retrieval (sampling 3 frames per video); and OVEN [20] using the entity split for image-text retrieval where both queries and retrieval targets consist of image-text pairs. All images are resized to 512x512 and performance is assessed using Recall@1 for all datasets.

Audio Retrieval We utilize a subset of the multilingual FLEURS dataset [12], focusing on the five most spoken languages⁶; English (en), Hindi (hi), Chinese (zh), Spanish (es), and French (fr). Recall@1 is employed as the evaluation metric, given the single gold target.

SQL We evaluate SQL-like reasoning on Spider, a single-turn text-to-SQL dataset [58], and SparC, its multi-turn variant [59]. The input contains the database tables serialized as CSV and the natural language question. The model is allowed to perform reasoning in natural language before giving the final answer, which must be formatted in a Markdown code block. The extracted answers are evaluated against the execution results of the gold SQL queries. For SparC, the multi-turn questions are provided one-by-one in a conversational format, and credit is awarded only when the answers of all steps are correct.

Many-shot ICL We investigate LCLMs' many-shot ICL capabilities by repurposing datasets from 542 Big Bench Hard (BBH) [43, 44] and LongICLBench (LIB) [57, 30] to fit a many-shot ICL setting, 543 focusing on multi-class classification tasks. The first set of datasets is drawn from Big-Bench Hard and 544 includes: date_understanding (BBH-date), salient_error_translation_detection (BBH-545 salient), tracking_shuffled_objects_seven_objects (BBH-tracking7), and web_of_lies 546 (BBH-web), each with up to 150 examples for prompting and up to 7 classes. Unlike other LOFT 547 tasks, the full corpus fits within 32k tokens which leads us to also create variants from 2k to 548 549 32k context lengths. We use accuracy as our metric for Big Bench Hard. We also evaluate with DialogRE [57], a dialogue-based relation classification dataset with 36 relation labels. We follow the 550 LongICLBench format but use accuracy as our metric. 551

⁶https://en.wikipedia.org/wiki/List_of_languages_by_total_number_of_speakers

552 **B** Datasets Processing Details

Content Filtering The language model APIs often block inputs with potentially harmful contents. When creating LOFT, we tried to remove such contents from textual and visual inputs. Our filtering was done using a classifier as well as a keyword-based filtering. Despite our best effort, some API calls still refused to provide answers, which we treated as incorrect in our evaluation.

Tokenization To measure the size of a corpus, we count the number of tokens returned by the SentencePiece tokenizer [24].

Links to Dataset Sources LOFT repurposes existing datasets for evaluating LCLMs. Here are the links to the original datasets used in LOFT.

- Text Retrieval BEIR (ArguAna, FEVER, FIQA, MS MARCO, NQ, Quora, SciFact, Touché-2020, HotPotQA) [47]: https://github.com/beir-cellar/beir
- Text Retrieval TopiOCQA [2]: https://github.com/McGill-NLP/topiocqa
- Text Retrieval MuSiQue [48]: https://allenai.org/data/musique
- Text Retrieval QAMPARI [3]: https://github.com/samsam3232/qampari
- Text Retrieval QUEST [35]: https://github.com/google-research/language/
 tree/master/language/quest
- Visual Retrieval Flickr30k 55: https://www.kaggle.com/datasets/hsankesara/
 flickr-image-dataset
- Visual Retrieval MS COCO [31]: https://cocodataset.org
- Visual Retrieval OVEN [20]: https://github.com/open-vision-language/oven
- Visual Retrieval MSR-VTT [53]: https://cove.thecvf.com/datasets/839
- Audio Retrieval FLEURS [12]: https://huggingface.co/datasets/google/ fleurs
- RAG Same as Text Retrieval
- SQL Spider [58]: https://yale-lily.github.io/spider
- SQL SparC 59: https://yale-lily.github.io/sparc
- Many-Shot ICL Big-Bench Hard [43] 44]: https://github.com/suzgunmirac/ BIG-Bench-Hard
- Many-Shot ICL LongICLBench [57, 30]: https://github.com/TIGER-AI-Lab/
 LongICLBench

582 C Detailed Statistics

In Table 5, we show detailed statistics of the LOFT	benchmark.
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	D ()	# Queries	Supported
Task	Dataset	(Few-shot / Development / Test)	
	ArguAna	5 / 10 / 100	32k / 128k / 1M
	FEVER	5/10/100	32k / 128k / 1M
	FIQA	5 / 10 / 100	32k / 128k / 1M
	MS MARCO	5/10/100	32k / 128k / 1M
	NQ	5/10/100	32k / 128k / 1M
Text	Quora	5/10/100	32k / 128k / 1M
Retrieval	SciFact	5/10/100	32k / 128k / 1M
neentevui	Touché-2020	5/10/34	32k / 128k / 1M
	TopiOCQA	5 / 10 / 100	32k / 128k / 1M
	HotPotQA	5 / 10 / 100	32k / 128k / 1M
	MuSiQue	5 / 10 / 100	32k / 128k / 1M
	QAMPARI	5 / 10 / 100	32k / 128k / 1M
	QUEST	5 / 10 / 100	32k / 128k / 1M
	Flickr30k	5 / 10 / 100	32k / 128k
Visual	MS COCO	5 / 10 / 100	32k / 128k / 1M
Retrieval	OVEN	5 / 10 / 100	32k / 128k / 1M
	MSR-VTT	5 / 10 / 100	32k / 128k / 1M
	FLEURS-en	5 / 10 / 100	32k / 128k
Audio	FLEURS-es	5 / 10 / 100	32k / 128k
Retrieval	FLEURS-fr	5 / 10 / 100	32k / 128k
Kellievai	FLEURS-hi	5 / 10 / 100	32k / 128k
	FLEURS-zh	5 / 10 / 100	32k / 128k
	NQ	5 / 10 / 100	32k / 128k / 1M
	TopiOCQA	5 / 10 / 100	32k / 128k / 1M
RAG	HotPotQA	5 / 10 / 100	32k / 128k / 1M
KAU	MuSiQue	5 / 10 / 100	32k / 128k / 1M
	QAMPARI	5 / 10 / 100	32k / 128k / 1M
	QUEST	5 / 10 / 100	32k / 128k / 1M
SQL	Spider	1 / 10 / 100	32k / 128k / 1M
	SParC	1 / 10 / 100	32k / 128k / 1M
	BBH-date	- / 10 / 90	32k
Many-Shot	BBH-salient	- / 10 / 90	32k
ICL	DDH-tracking/	- / 10 / 90	32k
ICL	BBH-web	- / 10 / 90	32k
	LIB-dialogue	- / 10 / 100	32k / 128k / 1M

Table 5: Tasks and datasets in the LOFT benchmark. We show the number of queries per each split and and supported context lengths for each dataset.

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D Dataset Instructions

Dataset	Instruction
	Text Retrieval
ArguAna	You will be given a list of statements. You need to read carefully and understand all of them. Then you will be given a claim, and your goal is to find all statements from the list that can counterargue the claim.
FEVER Scifact	You will be given a list of passages. You need to read carefully and understand all of them. Then you will be given a claim, and your goal is to find all passages from the list that can help verify the claim as true of false.
FIQA MS MARCO NQ, TopiOCQA	You will be given a list of documents. You need to read carefully and understand all of them. Then you will be given a query, and your goal is to find all documents from the list that can help answer the query.
Quora	You will be given a list of questions. You need to read carefully and understand all of them. Then you will be given a new question, and your goal is to find all questions from the list that are near duplicates of the new question.
Touché-2020	You will be given a list of arguments. You need to read carefully and understand all of them. Then you will be given a controversial debating topic, and your goal is to find arguments from the list that's relevant to the topic.
HotPotQA MuSiQue QAMPARI QUEST	You will be given a list of documents. You need to read carefully and understand all of them. Then you will be given a query that may require you to use 1 or more documents to find the answer. Your goal is to find all documents from the list that can help answer the query.
	Visual Retrieval
Flickr30k MS COCO	You will be given a list of images. You need to carefully watch all of them. Then you will be given a new sentence, and your goal is to find most relevant image from the list for the given sentence.
OVEN	You will be given a list of Wikipedia entries which contains Wikipedia ID, Title and Description image. You need to carefully watch all of them. Then you will be given a input image and a question related to the image, and your goal is to find most relevant Wikipedia entry from the list that can be used to best answer the question.
MSR-VTT	You will be given a list of videos which contains the video ID and video content (present as sequence of images, with timestamp in text). You need to carefully watch all of them. Then you will be given a text query, and your goal is to find most relevant video from the list that can best answer the question.
	Audio Retrieval
FLEURS-*	You will be given a list of audio which contains Audio ID and audio. You need to carefully listen all of them. Then you will be given a transcript, and your goal is to find most relevant audio from the list that matches the given transcript. Print out the Audio ID of the audio presented in the list.
	SQL
Spider SparC	You will be given a list of tables. You need to read all of the rows of each table. Then you will be given a query, and your goal is to get the answer from the tables. Then format the answer into a list of lists. When formatting the answer into a list of lists, make sure you use the exact fields that are provided in the tables.

Table 6: Instructions used for each LOFT dataset. We omit instructions for the RAG datasets, which are almost identical to text retrieval instructions. The ICL task does not use additional instructions, but only many-shot examples in their context.

585 E Positional Analysis Detailed Results

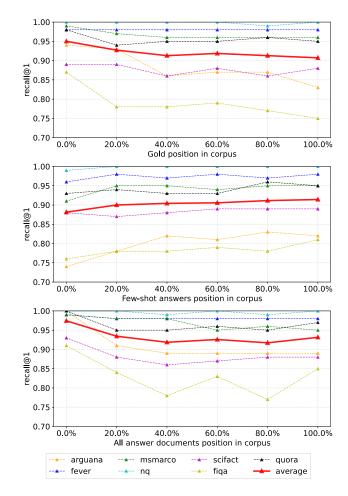


Figure 9: Detailed metrics of the positional analysis, where we vary the position of gold documents (needed for the answer) and few-shot documents (used in few-shot demonstrations). *Top:* we vary the gold documents position within the corpus. *Middle:* we vary the few-shot documents position within the corpus. *Bottom:* we group the gold and few-shot documents together, and vary their position within the corpus. The average is shown in red.

586 F Ablated Prompt Examples

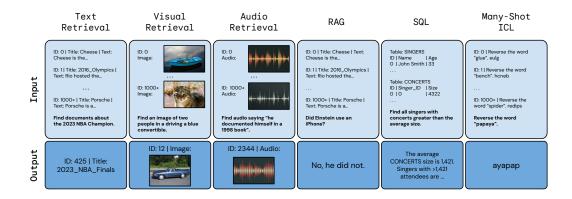


Figure 10: Examples of the task prompts in LOFT. Each LCLM is expected to do in-context retrieval, reasoning, and many-shot learning on corpora up to millions of tokens.

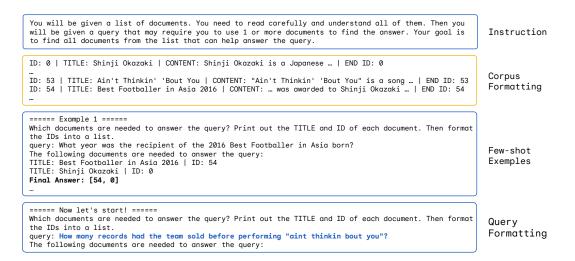


Figure 11: Original CiC prompt for HotPotQA, a retrieval dataset in LOFT. The prompt contains an instruction, a corpus, few-shot examples and a query.

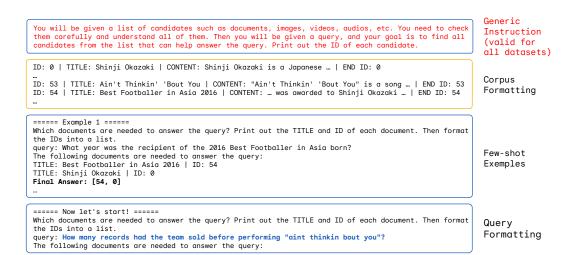


Figure 12: Generic Instruction Ablation, with changes to the original CiC prompt in red. The instruction is changed to a generic one that applies to all tasks in LOFT.

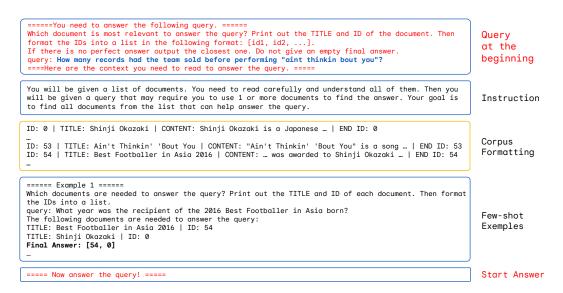


Figure 13: Query at the Beginning Ablation, with changes to the original CiC prompt in red. The query is placed at the beginning instead of the end.

You will be given a list of documents. You need to read carefully and understand all of them. Then you will be given a query that may require you to use 1 or more documents to find the answer. Your goal is to find all documents from the list that can help answer the query.	Instruction
ID: D5Y5 TITLE: Shinji Okazaki CONTENT: Shinji Okazaki is a Japanese END ID: D5Y5 ID: y2h8 TITLE: Ain't Thinkin' 'Bout You CONTENT: "Ain't Thinkin' 'Bout You" is a song END ID: y2h8 ID: E8J2 TITLE: Best Footballer in Asia 2016 CONTENT: was awarded to Shinji Okazaki END ID: E8J2 	Corpus Formatting
<pre>===== Example 1 ===== Which documents are needed to answer the query? Print out the TITLE and ID of each document. Then format the IDs into a list. query: What year was the recipient of the 2016 Best Footballer in Asia born? The following documents are needed to answer the query: IITLE: Best Footballer in Asia 2016 ID: E8J2 IITLE: Best Footballer in Asia 2016 ID: E8J2 TITLE: Shinji Okazaki ID: D5Y5 Final Answer: [E8J2, D5Y5] </pre>	Few-shot Exemples
====== Now let's start! ====== Which documents are needed to answer the query? Print out the TITLE and ID of each document. Then format the IDs into a list. query: How many records had the team sold before performing "aint thinkin bout you"?	Query Formatting

Figure 14: Alphanumeric Document ID Ablation, with changes to the original CiC prompt in red. Instead of using sequential numeric document IDs, a unique random alphanumeric ID is generated with alternating ASCII letters and digits.

The following documents are needed to answer the query:

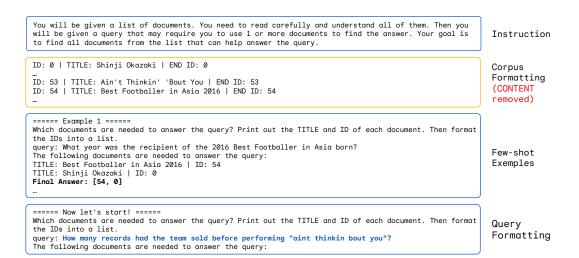


Figure 15: Title Only Ablation, with changes to the original CiC prompt in red. In this ablation, the document content is removed, keeping only the document title.

 You will be given a list of documents. You need to read carefully and understand all of them. Then you will be given a query that may require you to use 1 or more documents to find the answer. Your goal is
 Instruction

 You will be given a query that may require you to use 1 or more documents to find the answer. Your goal is
 Instruction

 ID: 0 | TITLE: Shinji Okazaki | CONTENT: Shinji Okazaki is a Japanese ...
 Corpus

 To: 53 | TITLE: Ain't Thinkin' 'Bout You | CONTENT: "Ain't Thinkin' 'Bout You" is a song ...
 Corpus

 ID: 54 | TITLE: Best Footballer in Asia 2016 | CONTENT: ... was awarded to Shinji Okazaki ...
 Corpus

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====== Now let's start! ======
Which documents are needed to answer the query? Print out the TITLE and ID of each document. Then format
the IDs into a list.
query: How many records had the team sold before performing "aint thinkin bout you"?
The following documents are needed to answer the query:

Figure 16: ID Echo Ablation, with changes to the original CiC prompt in red. In this ablation, the ID is only mentioned at the beginning of each document, and we remove the ID echo at the end (e.g. "END ID:").

You will be given a list of documents. You need to read carefully and understand all of them. Then you will be given a query that may require you to use 1 or more documents to find the answer. Your goal is to find all documents from the list that can help answer the query.	General Instruction
<pre>Example 1 ====== ID: 0 TITLE: Best Footballer in Asia 2016 CONTENT: was awarded to Shinji Okazaki END ID: 0 ID: 1 TITLE: Shinji Okazaki CONTENT: Shinji Okazaki is a Japanese END ID: 1 ID: 9 TITLE: The Lodger (2009 film) CONTENT: The Lodger is END ID: 9 Which documents are needed to answer the query? Print out the TITLE and ID of each document. Then format the IDs into a list. query: What year was the recipient of the 2016 Best Footballer in Asia born? The following documents are needed to answer the query: TITLE: Best Footballer in Asia 2016 ID: 0 TITLE: Shinji Okazaki ID: 1 Final Answer: [0, 1] </pre>	Few-shot Exemples With Sampled Corpus
ID: 0 TITLE: Shinji Okazaki CONTENT: Shinji Okazaki is a Japanese … END ID: 0 ID: 53 TITLE: Ain't Thinkin' 'Bout You CONTENT: "Ain't Thinkin' 'Bout You" is a song … END ID: 53 ID: 54 TITLE: Best Footballer in Asia 2016 CONTENT: … was awarded to Shinji Okazaki … END ID: 54 	Corpus Formatting
====== Now let's start! ====== Which documents are needed to answer the query? Print out the TITLE and ID of each document. Then format the IDs into a list. query: How many records had the team sold before performing "aint thinkin bout you"? The following documents are needed to answer the query:	Query Formatting

Figure 17: Corpus in Each Few-shot Ablation, with changes to the original CiC prompt in red. In particular, in this ablation, each few-shot example contains a sampled corpus (10 documents), the full corpus is then given before the Query part of the prompt.



Formatting

Figure 18: No Chain-of-Thought Ablation, with changes to the original CiC prompt in red. In particular, in this ablation, we remove the chain-of-thought from the few-shot examples, instead opting to output the answer directly.

587 G Qualitative Analysis of Long-Context Wins and Losses

	Task = Retrieval Dataset = Natural Questions 1M	
Input Output	CiC-prompt(query="when does monday night raw come on hulu") The following documents can help answer the query: TITLE: WWE Raw ID: 1023 Final Answer: ['1023'] (
Input Output	CiC-prompt(query="where does the synthesis of new dna from existing dna occurs") The following documents can help answer the query: TITLE: DNA replication ID: 3355 Final Answer: ['3355'] (\checkmark)	
Input Output	CiC-prompt(query="jawaharlal nehru centre for advanced scientific research jakkur campus") TITLE: Jawaharlal Nehru Centre for Advanced Scientific Research ID: 6911 Final Answer: ['6911'] (X) // Incorrect ID (gold = 5691)	
	Dataset = HotPotQA 128k (multi-hop)	
Input	CiC-prompt(query="Which internationl football team has had a player endorse the Nike Hypervenom football boot?")	
Output	 The following documents can help answer the query: reasoning: The Nike Hypervenom is endorsed by players such as Marcus Rashford based on the document **ID:** 413 (title: Nike Hypervenom). reasoning: Marcus Rashford plays for the England national team based on the document **ID:** 558 (title: Marcus Rashford). Final Answer: ['413', '558'] (✓) 	
Input	CiC-prompt(query="What NHL team drafted Kaspars Astasenko in 1999 and won the Stanley Cup in 2003-04?")	
Output	The following documents can help answer the query: ID: 217 TITLE: Kaspars Astašenko CONTENT: Kaspars Astašenko (17 February 1975 – 20 November 2012) was a Latvian professional ice hockey player. Astašenko was born in Riga Latvia. Astašenko was drafted by the Tampa Bay Lightning in the 1999 NHL Entry Draft 127th overall. Astašenko played parts of two seasons in the National Hockey League with the Lightning. END ID: 217 ID: 508 TITLE: Tampa Bay Lightning CONTENT: The Tampa Bay Lightning are a professional ice hockey team based in Tampa, Florida. It is a member of the Atlantic Division of the Eastern Conference of the National Hockey League (NHL). The Lightning have one Stanley Cup championship in their history, in 2003–04. The team is often referred to as the Bolts, and the nickname is used on the current third jersey. The Lightning plays home games in the Amalie Arena in Tampa. END ID: 508 Final Answer: ['217', '508'] (✓)	
Input	CiC-prompt(query="What drum machine was introduced in 1989 and allowed 32 notes to be played simultaneously?")	
Output	The following documents can help answer the query: ID: 773 TITLE: Roland R-8 CONTENT: The R-8 Human Rhythm Composer is an electronic drum machine introduced in 1989 by Roland Corporation, using PCM voices The device has eight individual outputs, 32-voice polyphony, and four-part multitimbral MIDI. END ID: 773 Final Answer: ['773'] (X) // Partially correct (666 is missing)	

Table 7: Qualitative examples showcasing the successes and failures of the CiC prompting in the text retrieval task. We use Gemini-1.5 Pro for the analysis. For HotPotQA, we observed that some of the questions are actually answerable from a single document as illustrated in the last example.

	Task = RAG
	Dataset = MuSiQue 128k (multi-hop)
Input Output	CiC-prompt(query="Where do greyhound buses leave from in the city the performer of Born A Lion formed in?") reasoning: Born A Lion is the debut album by Canadian rock band <u>Danko Jones</u> . reasoning: <u>Danko Jones</u> is a Canadian rock trio from <u>Toronto, Ontario</u> . reasoning: The <u>Toronto Coach Terminal</u> is the central bus station for inter-city services in <u>Toronto, Ontario, Canada</u> . ID: 427 TITLE: Born a Lion ID: 383 TITLE: Danko Jones ID: 724 TITLE: Toronto Coach Terminal
	Final Answer: ['Toronto Coach Terminal'] (✓)
Input Output	 CiC-prompt(query="When did the rx 350 model of the luxury division of the company that built Daihatsu boon change body style?") reasoning: The Daihatsu Boon is also sold as the Toyota Passo. reasoning: The Passo is sold at "Toyota Corolla Store" Japanese dealerships. reasoning: The Lexus RX is a mid-size luxury crossover SUV sold since 1998 by Lexus, a luxury division of Toyota. reasoning: The first generation Lexus RX was introduced in 1998 and was produced until 2003. reasoning: The second generation Lexus RX was introduced in 2003 and was produced until 2009. reasoning: The third generation Lexus RX was introduced in 2008 and was produced until 2015. reasoning: The fourth generation Lexus RX was introduced in 2015. reasoning: The RX 350 model was introduced in the second generation Lexus RX in 2003. Final Answer: ['2003', '2009', '2015'] (X) // Incorrect (answer = 'Sales began worldwide in April 2012')
	Dataset = QUEST 128k (multi-answer)
Input Output	 CiC-prompt(query="History books about Malaysia or the Qing dynasty or about South Korea") reasoning: Chronicle of Malaysia gives an account of Malaysia from January 1957 to 31 August 2007. reasoning: Treason by the Book is a historical account of the Zeng Jing case which took place during the reign of the Yongzheng Emperor of Qing China around 1730. reasoning: Korea: A Walk Through the Land of Miracles is a book by Simon Winchester. He recounts his experience walking across South Korea, from Jeju in the south to the DMZ in the north. Final Answer: ['Chronicle of Malaysia', 'Korea: A Walk Through the Land of Miracles', 'Treason by the Book'] (✓)
Input Output	CiC-prompt(query="Films about sisters shot in <u>Paris</u> ") reasoning: Peppermint Soda is a 1977 French comedy-drama film directed by Diane Kurys. The film follows two teenage sisters over the course of the year 1963. The high school where the film takes place is the Lycée Jules-Ferry in <u>Paris</u> , France. Final Answer: ['Peppermint Soda'] (X) // Partially correct (missing 'Le Divorce'and 'Two English Girls')

Table 8: Qualitative examples showcasing the successes and failures of the CiC prompting in the RAG task. We use Gemini-1.5 Pro for the analysis. In each example, we underline correct reasoning chains provided by the model.

	Task = SQL
	Dataset = Spider 1M
Input Output	CiC-prompt(query="Find the year which offers the largest number of courses.") Here's a step-by-step approach using the provided tables:
	1. Identify relevant data: We need to look at the "year" column in the "section" table, which lists the year each course section was offered.
	2. Count courses per year: Group the data by "year" and count the number of unique "course_id" values for each year. This will give us the number of distinct courses offered in each year.
	3. Find the year with the maximum count: Identify the year with the highest count of distinct courses.
	Based on the data provided, here's the breakdown of courses per year:
	Year Number of Courses 2001 29 2002 36 2003 38 2004 31 2005 31 2006 41 2007 40 2008 37 2009 35 2010 39 **The year 2006 has the largest number of courses offered (41).**
	Final Answer: ['2006'] (🗸)
Input Output	CiC-prompt(query="List total amount of invoice from Chicago, IL.") Here's a step-by-step approach using the provided tables:
	1. Identify relevant data: * **Invoices:** This table contains the billing city and total for each invoice.
	 2. Filter invoices from Chicago, IL: * Scan through the "billing_city" column and identify invoices where the city is "Chicago" and the state is "IL". * **Based on the data provided, invoices 24, 92, 103, 158, 287, 310, 332, and 384 are from Chicago, IL.**
	 3. Sum the total amounts: * Add up the "total" values for the invoices identified in step 2. * **The total amounts for the invoices are 1.98, 1.98, 15.86, 8.91, 1.98, 7.96, 5.94, and 0.99 respectively.** * **The sum of these amounts is 36.6.**
	4. Present the result:* The final output will be a single value representing the total amount of invoices from Chicago IL.
	Final Answer: ['36.6'] (X)

Table 9: Qualitative examples showcasing the successes and failures of the CiC prompting in the SQL task. We use Gemini-1.5 Pro for the analysis. In SQL, the long-context model first outputs a reasoning chain in natural language ideally simulating the execution of the SQL query before arriving at the prediction.