Standard RAG

Financial Report → Index → **Retriever**

1 Which year has the peak revenue?

Retrieve → The revenue peak in 2019 was $5 billion but declined in 2020 … | [?] miss | In 2023, the revenue increased to $6 billion…

Answer → The year 2019 has the peak revenue. *Wrong*

Note: the answer is wrong as the retriever fails to retrieve the right evidence.

2 How the pandemic impact the company?

Retrieve → In 2020, the company faced many challenges due to the pandemic. The global situation prompted a shift in consumer behavior…

Answer → The pandemic impacted the company by numerous challenges… *Inaccurate*

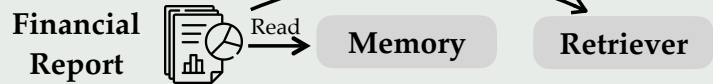*Note: the answer is not accurate due to the "pandemic impact" require high-level info aggregation.*

3 Summarize the financial report.

Retrieve → In summary, the past fiscal year of 2019… | we summarize the key takeaways from the operation status…

Answer → In summary, the company's strategic initiatives in the face of the pandemic have been critical to maintaining operational stability… *Incomplete*

Note: summary instruct isn't directly searchable, limiting standard RAG on summarization task.

Memory RAG

Financial Report → Read → **Memory** → Index → **Retriever**

1 Which year has the peak revenue?

Recall → The revenue first peak in 2019 and then declined… But it recover to a higher level in 2023 …

Retrieve → The revenue peak in 2019 was $5 billion but declined in 2020 … | In 2023, the revenue increased to $6 billion…

Answer → The year 2023 has the peak revenue.

Note: recall a rough draft and retrieve precise evidence to better answer the question.

2 How the pandemic impact the company?

Recall → The pandemic is from 2020 to 2022; Revenue changes; Supply chain issues; operation costs; Government aid …

Retrieve → In 2020, the company saw a sharp decline in revenue due to… | In 2021, supply chain issues persisted but were less severe…

Answer → In 2020, the company saw a sharp decline in revenue due to… In 2021, the company continued to face high operational costs but started optimizing processes …

Note: recall key point that relevant to the pandemic impact and retrieve comprehensive evidence.

3 Summarize the financial report.

Recall → 1. Revenue Trends; 2. Yearly Profitability; 3. Cash Flow; 4. Assets and Liabilities; 5. Pandemic Impact…

Retrieve →

Answer → The company's revenue experienced significant fluctuations due to various factors, including the impact of the pandemic. In 2019… In 2020, … The company's profitability was …

Note: recall key points of the financial report. And retrieve evidence text for each point and generate the final summary.