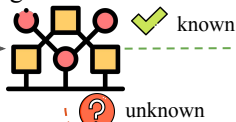


① Question Judgment

Retrieval Necessity
Judgment Model

User's Question
Heuristic Answer



③ Direct Generation

User Question

Large Language Model



Final Answer



② Heuristic Answer Generation

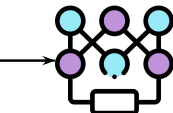
User Question: when did russia join the world economic forum ?



Slim Proxy
Model

Heuristic Answer: Russia has been a member of the World Economic Forum (WEF) since its inception in 1971...In 1992, the WEF changed its name to the World Economic Forum, and Russia became one of the founding members of the new organization...

③ Retrieval-Augmented Generation



Query Rewriting Model

Large Language Model



Final Answer



User's Question



Search Engine

Claim1: Russia has been a member of the World Economic Forum since its inception in 1971

Query1: Russia membership start year in World Economic Forum

Claim2: The World Economic Forum was founded by Klaus Schwab, a German-born businessman and economist

Query2: Founder of the World Economic Forum

Claim3: In 1992, the World Economic Forum changed its name to the World Economic Forum and Russia became one of the founding members of the new organization

Query3: Year World Economic Forum changed name

Query 1



unknown

Query 3



unknown

Query 2



known

Claim Judgement



Retrieval Necessity
Judgment Model