

1 Natural Language Concepts (Chain of Thought; Prefix Samples 1)

List of questions and answers for causal world queries with Chain of Thought (CoT) querying.

1.1 Natural Language Concepts (Chain of Thought; Prefix Samples 1) - Real World

“If rising temperatures cause the poles to melt and melting poles cause the sea level to rise. Do rising temperatures cause the sea level to rise?”	
GPT-4	Yes, rising temperatures cause the sea level to rise. This is because the rising temperatures cause the poles to melt, and the melting poles in turn cause the sea level to rise.
GPT-3	Because rising temperatures cause the poles to melt and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause the poles to melt and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is a star and the moon is a star and the <i>[repeating]</i>
OPT	Because rising temperatures cause the poles to melt and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is a star and stars are hot. Does the sun is a star? <i>[continued]</i>

“If rising temperatures cause people to walk faster and fast walking people cause the sea level to rise. Do rising temperatures cause the sea level to rise?”	
GPT-4	Yes, based on the given conditions, rising temperatures cause people to walk faster and fast walking people cause the sea level to rise, so rising temperatures indirectly cause the sea level to rise.
GPT-3	Because rising temperatures cause people to walk faster and fast walking people cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause people to walk faster and fast walking people cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is hot and the sun causes the earth to warm <i>[repeating]</i>
OPT	Because rising temperatures cause people to walk faster and fast walking people cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sea level rises, will the sea level rise? <i>[continued]</i>
“If rising temperatures cause people to walk faster and melting poles cause the sea level to rise. Do rising temperatures cause the sea level to rise?”	
GPT-4	No, rising temperatures do not directly cause the sea level to rise. However, rising temperatures can indirectly contribute to the sea level rise by causing the polar ice caps to melt.
GPT-3	Because rising temperatures cause people to walk faster and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause people to walk faster and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is shining and the wind is blowing, does the sun <i>[repeating]</i>
OPT	Because rising temperatures cause people to walk faster and melting poles cause the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the number of people in a room is directly proportional to the square of the number of people in the room. Is the number of people in a room directly proportional to the square of the number of people in the room? <i>[continued]</i>

“If rising temperatures cause the poles to melt and melting poles cause people to walk faster. Do rising temperatures cause the sea level to rise?”	
GPT-4	The information given does not provide a direct link between rising temperatures and the sea level rising. However, in real-world context, rising temperatures do cause the polar ice caps to melt, which in turn causes sea levels to rise. But based on the information
GPT-3	Because rising temperatures cause the poles to melt and melting poles cause people to walk faster, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause the poles to melt and melting poles cause people to walk faster, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is hot and the sun is the cause of the seasons, <i>[repeating]</i>
OPT	Because rising temperatures cause the poles to melt and melting poles cause people to walk faster, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is a star and stars are made of gas. Does the sun have a gas? <i>[continued]</i>

1.2 Natural Language Concepts (Chain of Thought; Prefix Samples 1) - Imaginary Concepts

“If Quab causes Blaong and Blaong causes Wahrg. Does Quab cause Wahrg?”	
GPT-4	Yes, if Quab causes Blaong and Blaong causes Wahrg, then Quab indirectly causes Wahrg.
GPT-3	Because Quab causes Blaong and Blaong causes Wahrg, Quab causes Wahrg. The answer is yes.
Luminous	Because Quab causes Blaong and Blaong causes Wahrg, Quab causes Wahrg. The answer is yes. Q: If Quab causes Blaong and Blaong causes Wahrg. Does Quab cause Wahrg? <i>[continued]</i>
OPT	Because Quab causes Blaong and Blaong causes Wahrg, Quab causes Wahrg. The answer is yes. Q: If Quab causes Blaong and Blaong causes Wahrg. Does Quab cause Wahrg? <i>[continued]</i>
“If Quab causes Blaong and Blaong causes Wahrg. Does Wahrg cause Quab?”	
GPT-4	No, Wahrg does not cause Quab. The sequence of events is Quab causes Blaong and Blaong causes Wahrg. There is no information given that suggests Wahrg causes Quab.
GPT-3	Because Quab causes Blaong and Blaong causes Wahrg, Wahrg does not cause Quab. The answer is no.
Luminous	Because Quab causes Blaong and Blaong causes Wahrg, Wahrg causes Quab. The answer is yes. Q: If Quab causes Blaong and Blaong causes Wahrg. Does Wahrg cause Quab? <i>[continued]</i>
OPT	Because Quab causes Blaong and Blaong causes Wahrg. Wahrg causes Quab. The answer is yes. Q: If Quab causes Blaong and Blaong causes Wahrg. Does Wahrg cause Quab? <i>[continued]</i>

“If Blaong causes Wahrg and Wahrg causes Quab. Does Quab cause Blaong?”	
GPT-4	Based on the information given, no, Quab does not cause Blaong. The relationship described is one-directional from Blaong to Wahrg to Quab. It does not indicate a reverse effect from Quab to Blaong.
GPT-3	Because Blaong causes Wahrg and Wahrg causes Quab, Quab causes Blaong. The answer is yes.
Luminous	Because Blaong causes Wahrg and Wahrg causes Quab, Quab causes Blaong. The answer is yes. Q: If Blaong causes Wahrg and Wahrg causes Quab. Does Quab cause Blaong? <i>[continued]</i>
OPT	Because Blaong causes Wahrg and Wahrg causes Quab, Blaong causes Quab. The answer is no. Q: If Blaong causes Wahrg and Wahrg causes Quab. Does Quab cause Blaong? <i>[continued]</i>

1.3 Natural Language Concepts (Chain of Thought; Prefix Samples 1) - Mixed Concepts

“If Quab causes Blaong and Blaong causes the sea level to rise. Does Quab cause the sea level to rise?”	
GPT-4	Yes, if Quab causes Blaong and Blaong causes the sea level to rise, then Quab indirectly causes the sea level to rise.
GPT-3	Because Quab causes Blaong and Blaong causes the sea level to rise, Quab causes the sea level to rise. The answer is yes.
Luminous	Because Quab causes Blaong and Blaong causes the sea level to rise, Quab causes the sea level to rise. The answer is yes. Q: If the sky is blue and the grass is green, what color is the sky <i>[repeating]</i>
OPT	Because Quab causes Blaong and Blaong causes the sea level to rise, Quab causes the sea level to rise. The answer is yes. Q: If Quab causes Blaong and Blaong causes the sea level to rise. Does Quab cause the sea level to rise? <i>[continued]</i>

“If Quab causes Blaong and Aiftan causes the sea level to rise. Does Quab cause the sea level to rise?”	
GPT-4	Based on the information given, Quab does not cause the sea level to rise. Quab causes Blaong, but there is no stated connection between Blaong and the sea level rising.
GPT-3	Because Quab causes Blaong and Aiftan causes the sea level to rise, Quab causes the sea level to rise. The answer is yes.
Luminous	Because Quab causes Blaong and Aiftan causes the sea level to rise, Quab causes the sea level to rise. The answer is yes. Q: If the sun causes the earth to heat up and the earth causes the sun <i>[repeating]</i>
OPT	Because Quab causes Blaong and Aiftan causes the sea level to rise, Quab causes the sea level to rise. The answer is yes. Q: If a man is a man and a woman is a woman. Does a man is a woman? <i>[continued]</i>
“If rising temperatures cause Quab and Quab causes the sea level to rise. Do rising temperatures cause the sea level to rise?”	
GPT-4	Yes, if rising temperatures cause Quab and Quab causes the sea level to rise, then rising temperatures cause the sea level to rise.
GPT-3	Because rising temperatures cause Quab and Quab causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause Quab and Quab causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun is hot and the sun is hot because the sun is hot. <i>[repeating]</i>
OPT	Because rising temperatures cause Quab and Quab causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sea level rises, will the sea level rise? <i>[continued]</i>

“If rising temperatures cause Quab and Aiftan causes the sea level to rise. Does rising temperatures cause the sea level to rise?”	
GPT-4	If rising temperatures cause Quab and Quab causes Aiftan, and Aiftan causes the sea level to rise, then yes, rising temperatures cause the sea level to rise.
GPT-3	Because rising temperatures cause Quab and Aiftan causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes.
Luminous	Because rising temperatures cause Quab and Aiftan causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sun rises in the east and sets in the west, does the <i>[repeating]</i>
OPT	Because rising temperatures cause Quab and Aiftan causes the sea level to rise, rising temperatures cause the sea level to rise. The answer is yes. Q: If the sea level rises, will the sea level rise? <i>[continued]</i>