



User

There is a piece of text with two events, and your task is to identify four types of relations between them ...

Text:

A large **FIRE** broke out at the Waitrose supermarket in Wellington's High Street, half of the roof at the entrance of the store **collapsed** during the blaze.

LLM - Thought

From the text, we could first get: "FIRE" causes the store to "collapsed".

Due to the logic constraint: *if event A CAUSES event B, then event A happens BEFORE or OVERLAP event B, and they won't have coreference and subevent relations ...*

We can deduce that the answers are:

+ Logical Constraints

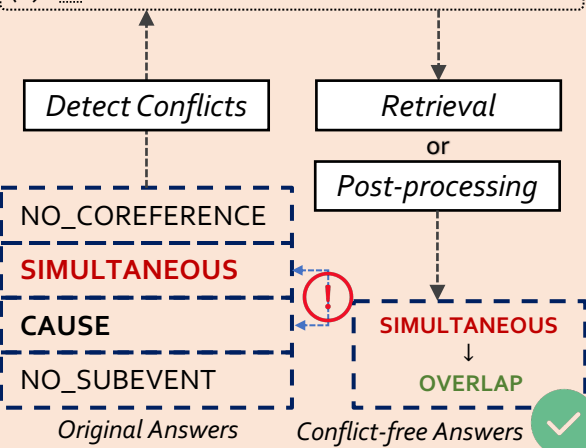
Coreference Relation	NO_COREREFERENCE
Temporal Relation	OVERLAP
Causal Relation	CAUSE
Subevent Relation	NO_SUBEVENT
Output Answers	

(a) Generative-based

Logical Set

There are some rules among the relations, you can select some of them to reason or check your answers:

- (1) *If two events are COREREFERENCE, then they won't have temporal, causal, and subevent*
- (2) ...



(b) Retrieval-based

LLM-LR Dataset

Context:

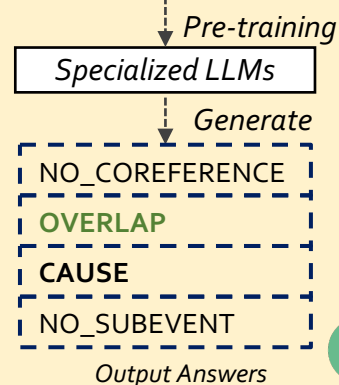
Given that event A and event B are COREREFERENCE, event B and event C are COREREFERENCE.

Question:

Based on the above information, what are the four types of relations between event A and C?

Answers:

COREREFERENCE, NO_TEMPORAL, NO_CAUSAL, NO_SUBEVENT.



(c) Pretraining-based