Loop through observation periods:

If observation period event instances match any patterns, add them to list of event instances

Add event-type and time unit to accumulated totals

Loop through events:

Add interval to the next instance of each event-type to the distribution for that event-type-pair’s distribution

Loop through event-type-pair distributions:

If there is a critical interval in that distribution:

Add a new event-type composed of these event-types with that critical interval

If at least one new critical interval was found:

Repeat from beginning

Else:

Completeness competition