Exercise 10: Apriori algorithm

You are given the following accident and weather data. Each line corresponds to one event.

car_accident rain lightning wind clouds fire
fire clouds rain lightning wind
car_accident fire wind
clouds rain wind
lightning fire rain clouds
clouds wind car_accident
rain lightning clouds fire
lightning fire car_accident

1. You would like to know what the likely cause of all the car accidents is. What association rules do you need to look for? Compute the confidence and support values for these rules. Looking at these values, which is the most likely cause of the car accidents?

2. Find all the association rules for minimal support 0.6 and minimal confidence of 1.0 (certainty). Follow the apriori algorithm.