Implement Byte-pair encoding algorithm for the given corpus. Assume necessary parameters.

Luna the robot woke up early today. She wanted to explore the forest near her home. The forest was quiet, but Luna heard a soft humming sound behind the old oak tree. She discovered a tiny drone trying to send a distress signal. Its battery was almost empty. Luna carried the drone back to her workshop and repaired it using spare parts. The drone introduced itself as Pico and thanked Luna for saving it. Together, Luna and Pico built a small map of the forest using their sensors. They collected location data, sensor readings, and signal strength values. These readings helped them detect forest paths, forest clearings, and drone-safe zones. By evening, they returned home with new data and a plan for tomorrow's adventure. Luna stored the drone's data in her robot log, while Pico processed the map for better accuracy.