For this homework you need to write JavaScript code that uses nodejs core modules events, stream, fs, and https. You could also use node-fetch instead of https. You <u>must</u> use the stream versions of read and write operations from the fs module. First, get the following files using https.get or fetch and store them locally by piping to a write stream created using the fs module:

- (1) <a href="https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-continent.json">https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-continent.json</a>
- (2) <a href="https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-abbreviation.json">https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-abbreviation.json</a>
- (3) <a href="https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-capital-city.json">https://raw.githubusercontent.com/samayo/country-json/master/src/country-by-capital-city.json</a>

Note that streams are also event emitters with known (i.e., standardized) event names such as data and close (Read about the fs module at the nodejs site). You could listen for the close event on a file closing after write and use your own emitters to emit an event to initiate reading the file and processing it. You need to read each of these local files into memory using a read stream created using the fs module and after all of them are read process them together to produce an output file per continent in JSON format that includes: country\_name, country\_abbreviation and capital for each country. For example, north\_america.json would have an entry {"country\_name": "United States"," country\_abbreviation": "US", "capital": "Washington D.C."}. Each output json file would contain an array of objects. Note that each piece of information needed for output comes from a different input file. Record missing information, if any, appropriately in your output files and print a message to the console.

Each continent data should be processed by emitting an event by that continent's name. For example, to process data about Asia, emit an "asia" event and in the listener for that event do the processing.