Exercise: specification of a bibliography data structure

A bibliography is a collection of bibliography items.
Each item has one or more authors, one title and optionally a subtitle.
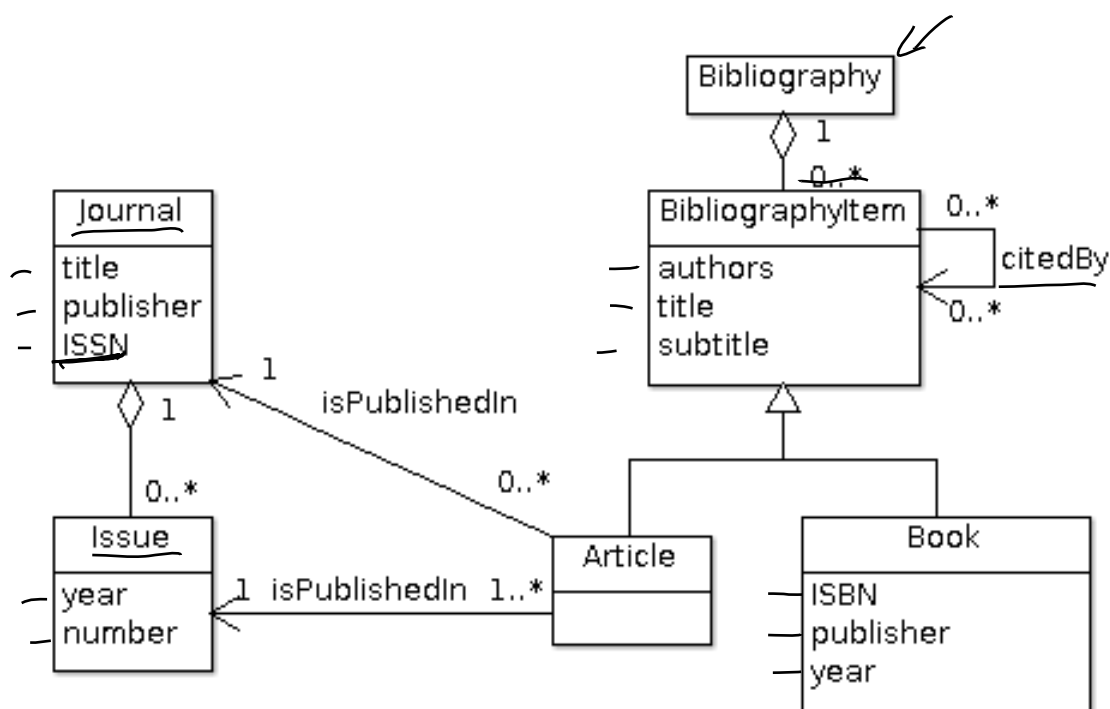Each item can be cited by other items and can cite other items
Each item can be a book or an article.
Each book also has an ISBN, which uniquely identifies it, a publisher, and a publication year.
An article is published in a particular issue of a journal.
Each journal has a name, a publisher, and an ISSN, which uniquely identifies it.
Each issue of a journal is characterized (uniquely within a journal) by a year and a number.

Design a JSON data structure that can be used to represent a bibliography and specify it by means of a JSON schema.

biblio 1

id 1

item *

author + title 1 subtitle 0..1 citation *

article ISSN year number

extension ISBN book publisher year

biblio

specialisedItem *