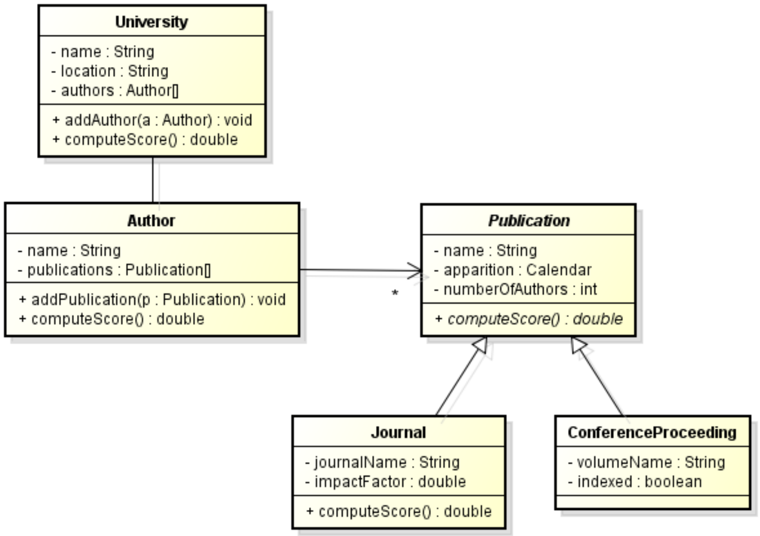

In this HW you will compute the academic scores authors (professors) in an University.

University class contains an array of Authors and the ability to add new authors. computeScore() in University returns the sum of scores of each Author. University has a bidirectional relation to Author so University has an array of Authors while the Author has an University.

Author has a name and an array of Publications. addPublication() adds a new Publication while computeScore() returns the sum of all Publications.

Publication class is abstract (since we do not know how to compute the score for a generic publication). Each Publication has a name, apparition date and number of authors. The method computeScore() is abstract and will be overridden in the subclasses.

Journal extends Publication. In addition a Journal has a journalName and an impactFactor. For a Journal the score is computed like this: (impactFactor * 0.5) / numberOfAuthors.

ConferenceProceeding extends Publication. In addition a ConferenceProceeding has a volumeName and a boolean indexed. If the ConferenceProceeding is indexed, the score is computed : 0.25/numberOfAuthors. If the ConferenceProceeding is not indexed, the score is computed : 0.2/numberOfAuthors.

Implement the classes and test your program by creating two authors in the same university, each with 2 journals and 2 conference proceedings articles. Compute their score and compute the score for the whole university.