Consider three relations :

- Book(Isbn, BookTitle, Format, Publisher, PubDate),
- Author(AuthorID, AuthorName, AuthorBirthDate),
- WrittenBy(Isbn, AuthorID)

Select all (and only) **left-deep** trees that represent a relational algebra query that returns all (and only) the BookTitle and AuthorName of all books published by 'VUPress' .

As you select your choices, A1-A5, be careful to associate the choice with the corresponding tree, which will be the tree that appears immediately below the choice (not above the choice).

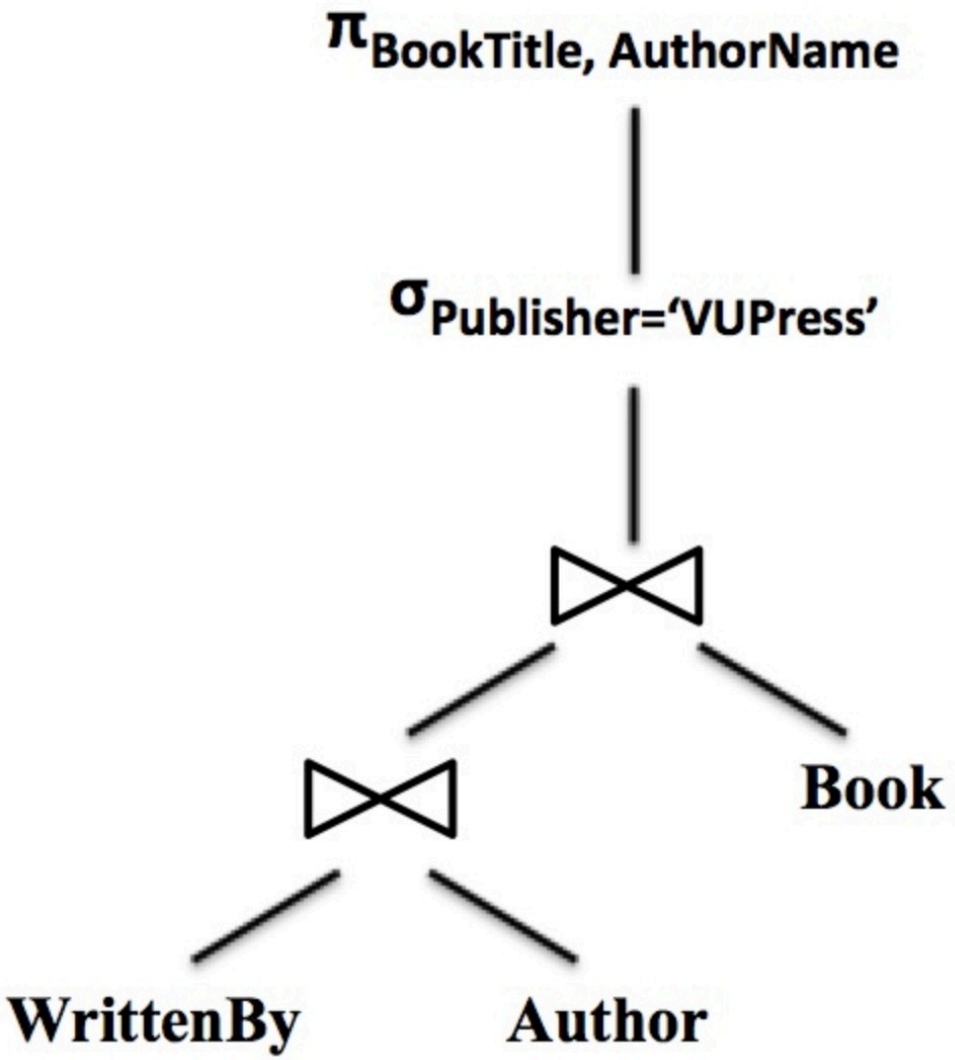
The correct answers are A1, A3, A4

A2 is not a left-deep tree

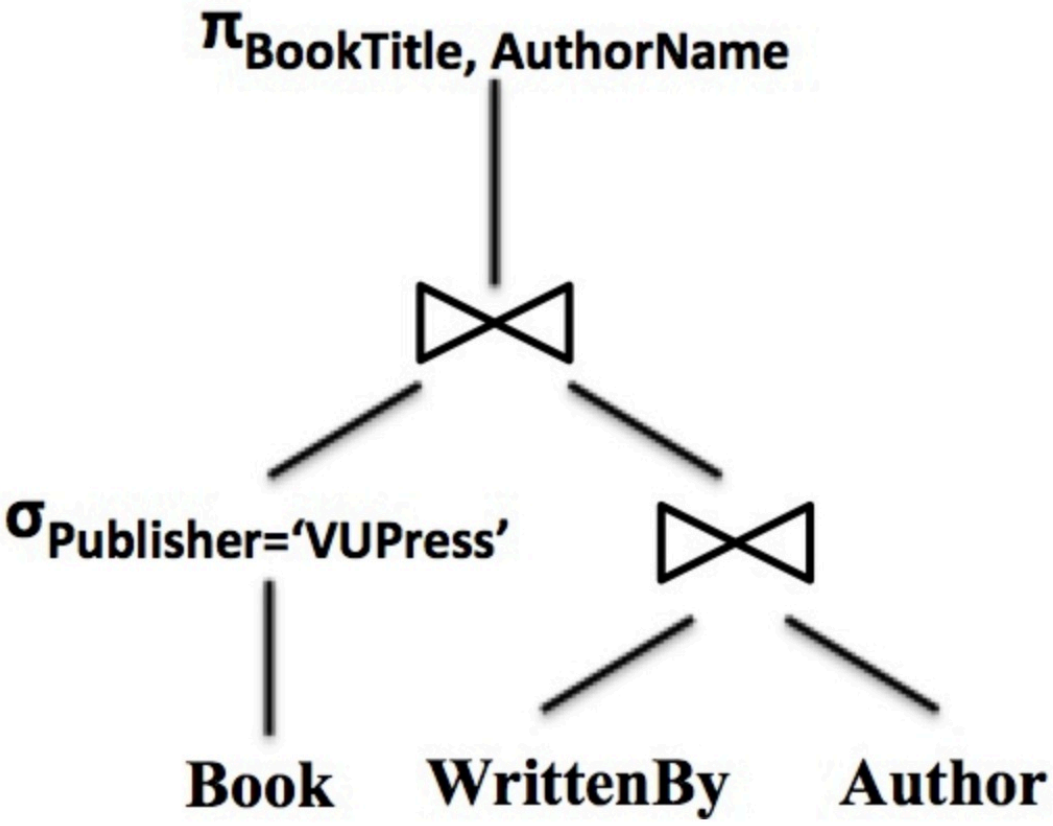
A5 is left-deep, but it does not represent an RA query that accurately answers the query specification

See the trees on the following pages

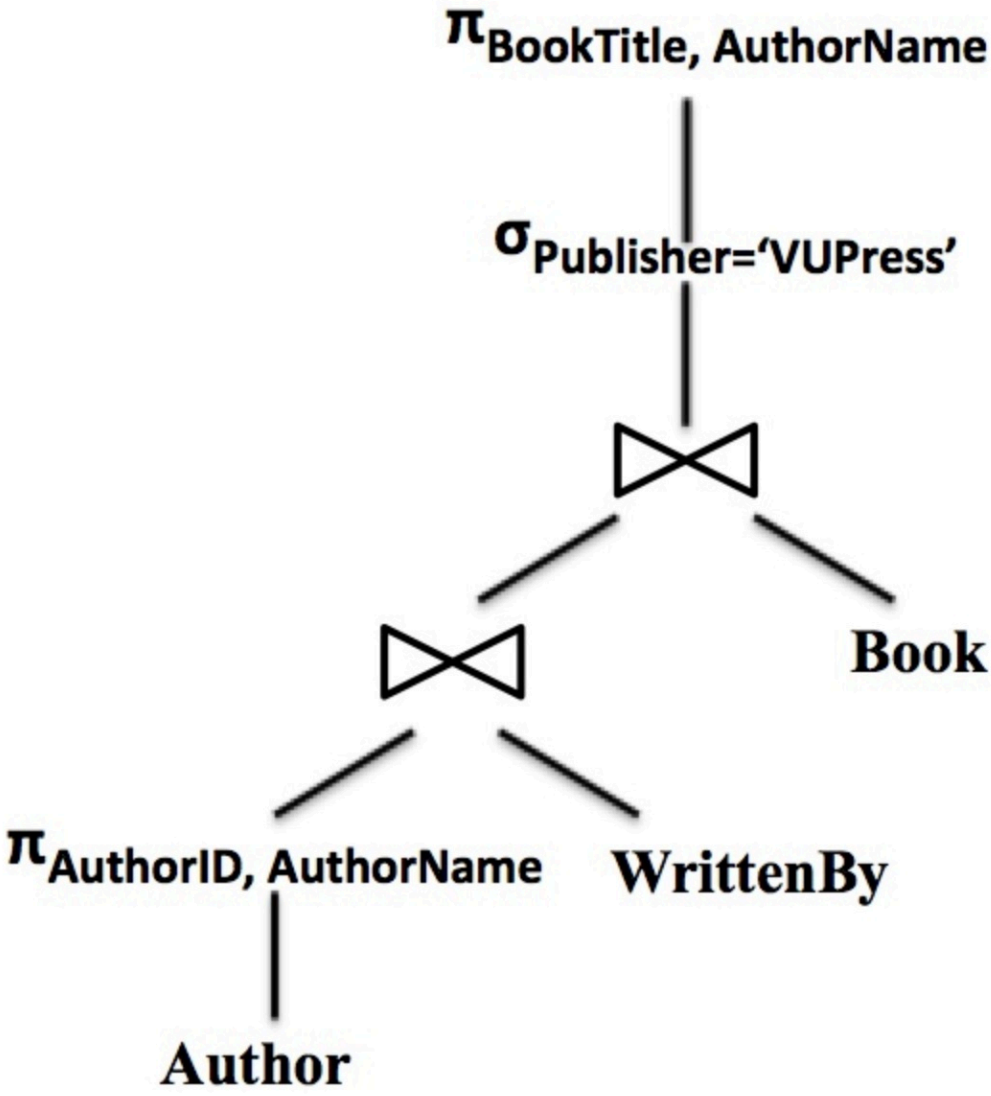
A1


πBookTitle, AuthorName
σPublisher='VUPress'
Book
WrittenBy
Author

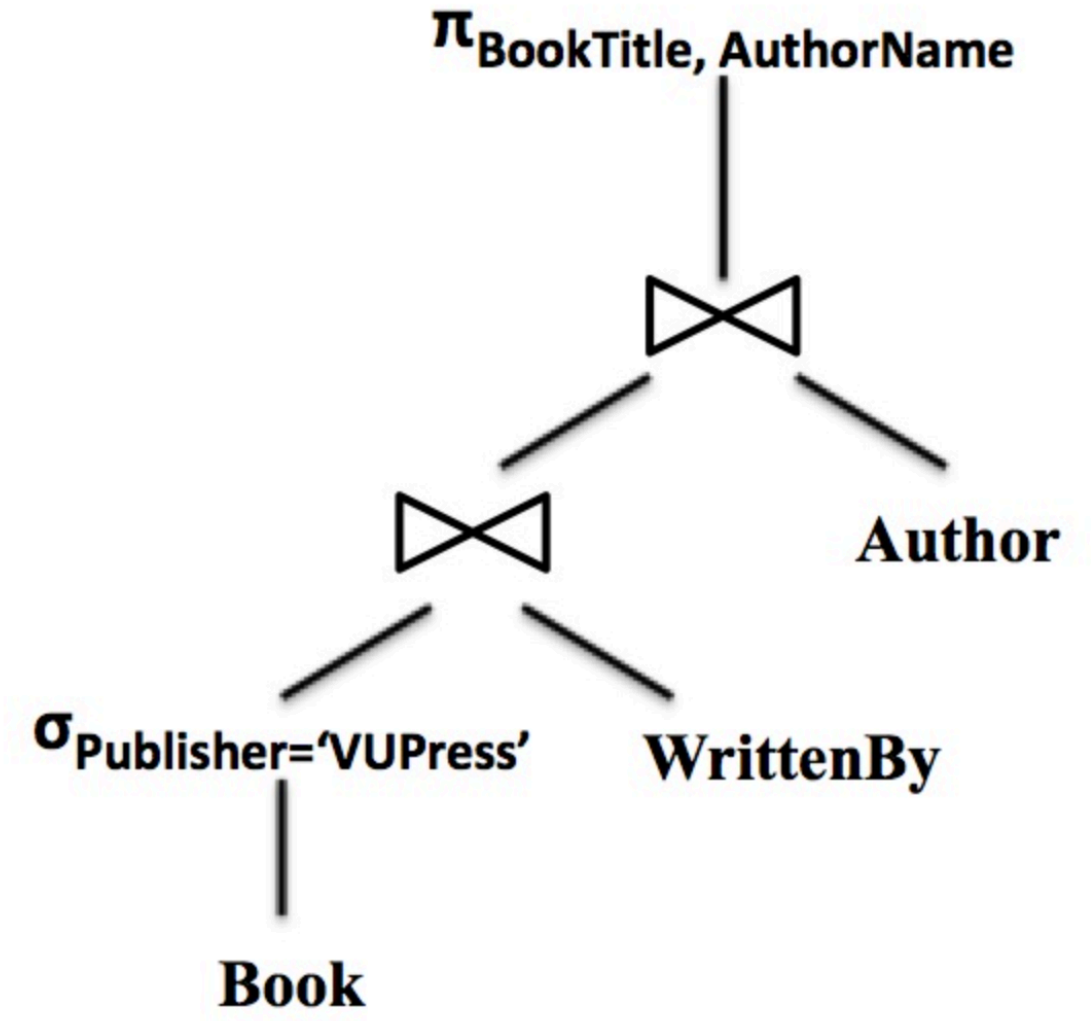
A2


πBookTitle, AuthorName
σPublisher='VUPress'
Book
WrittenBy
Author

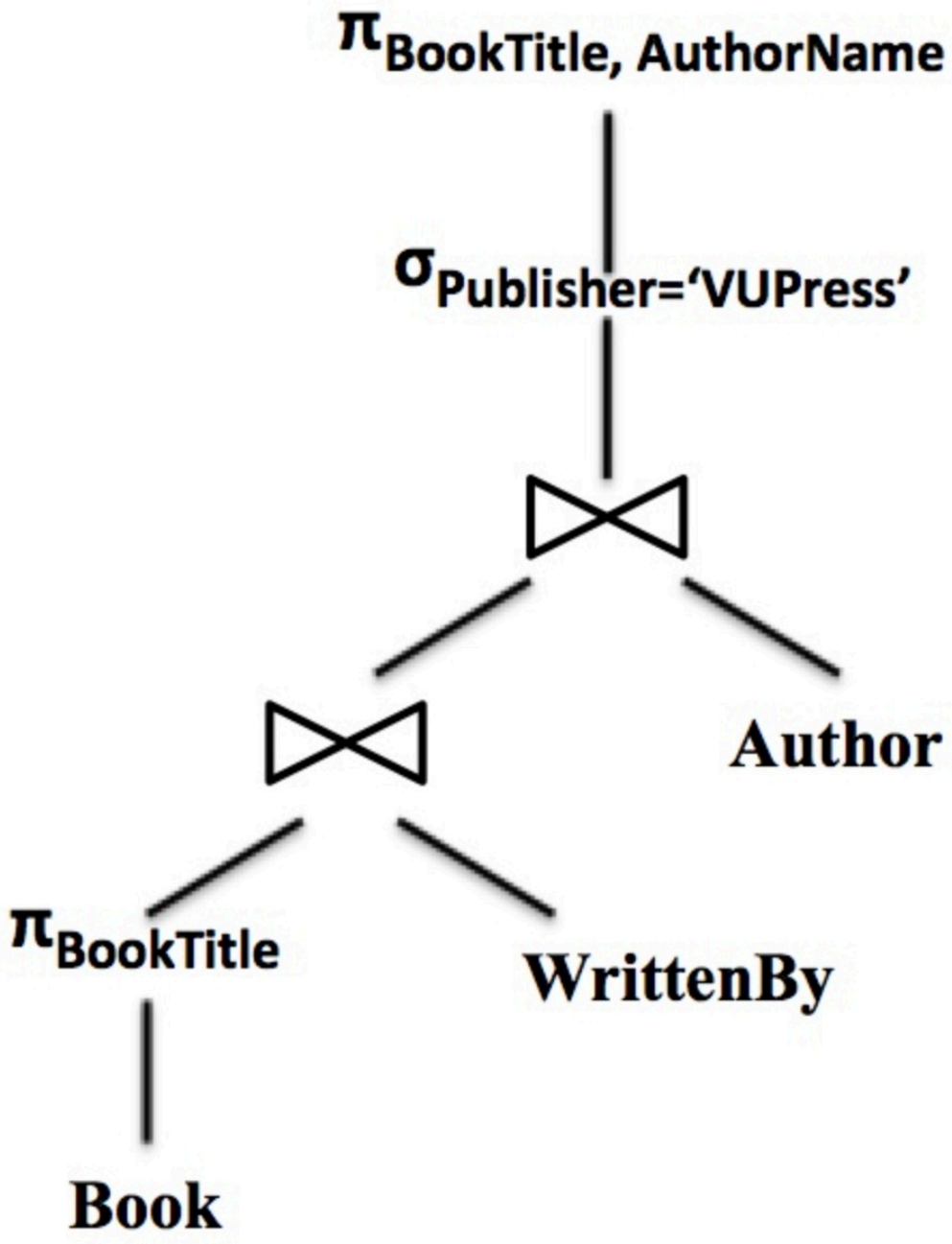
A3


πBookTitle, AuthorName
σPublisher='VUPress'
Book
πAuthorID, AuthorName
WrittenBy
Author

A4


πBookTitle, AuthorName
Author
σPublisher='VUPress'
WrittenBy
Book

A5


πBookTitle, AuthorName
σPublisher='VUPress'
Author
πBookTitle
WrittenBy
Book