Supplemental Notes for Lecture 12 of CS 5001 (Foundations of CS) for the Fall, 2018 session at the Northeastern University Silicon Valley Campus.

Data Model Journals and Publisher

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- This animation shows the data model during the creation of a Publisher and three Journals for the example shown in lectures 11 (version 4) and lecture 12.
- The main function first creates a Publisher for the National Geographic Society, then creates and adds Journals for three of its publications:
 - National Geographic
 - National Geographic Explorer
 - National Geographic Kids

Publisher

name:

nJournals:

maxJournals:

journals:

newPublisher: allocate Publisher

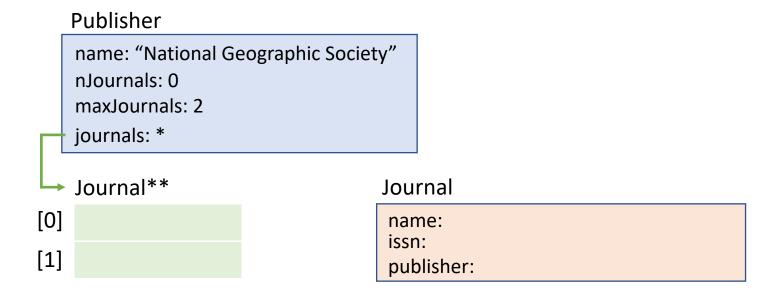
Publisher

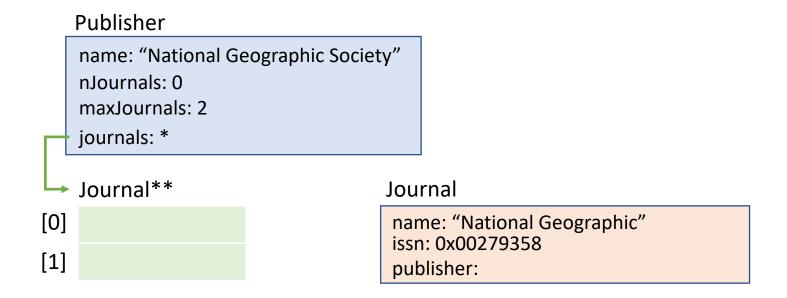
name: "National Geographic Society"

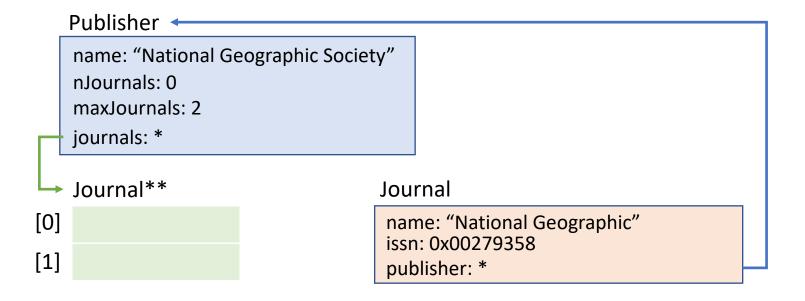
nJournals: 0 maxJournals: 2

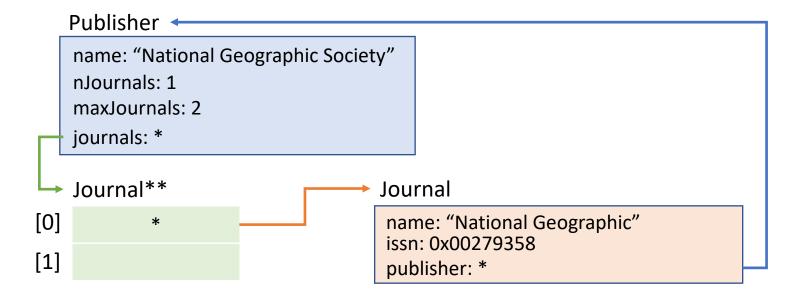
journals:

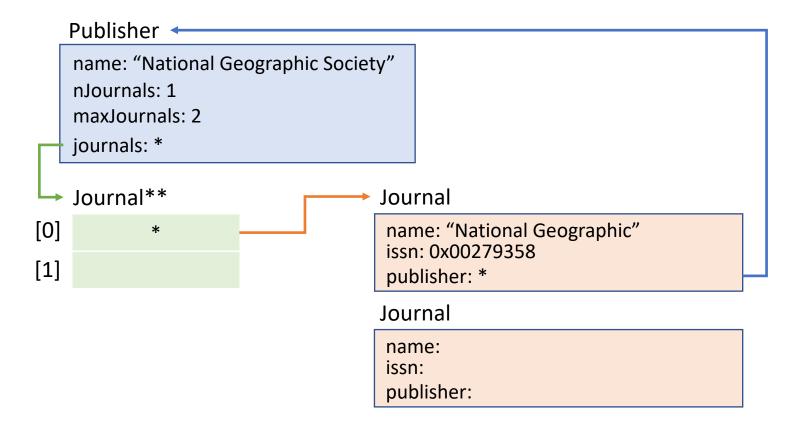
Publisher name: "National Geographic Society" nJournals: 0 maxJournals: 2 journals: * Journal** [0]

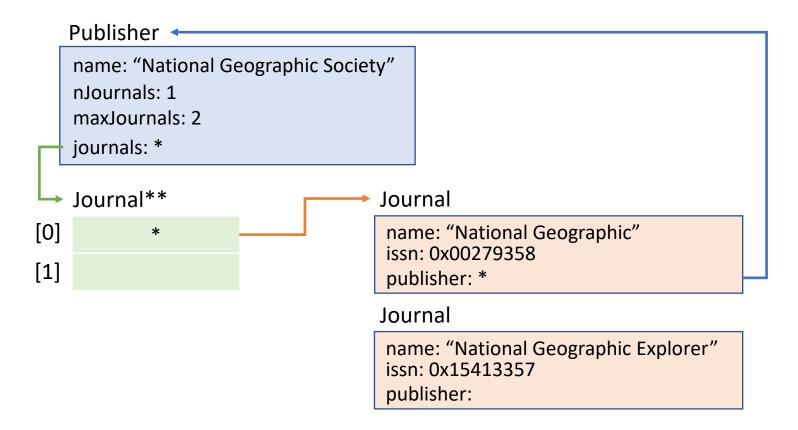


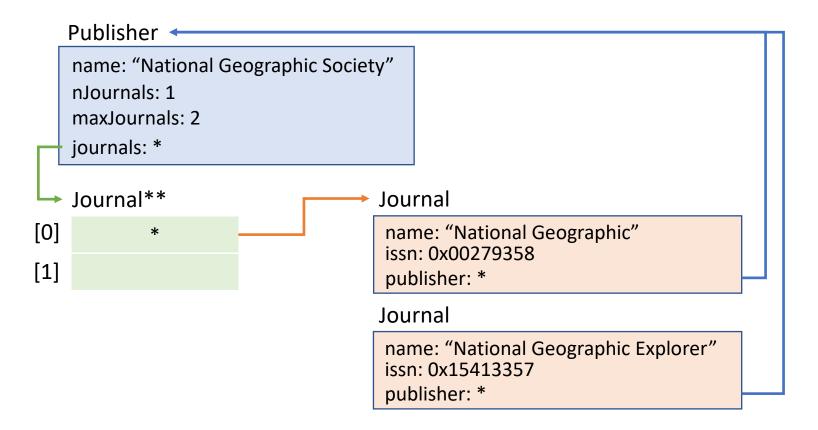


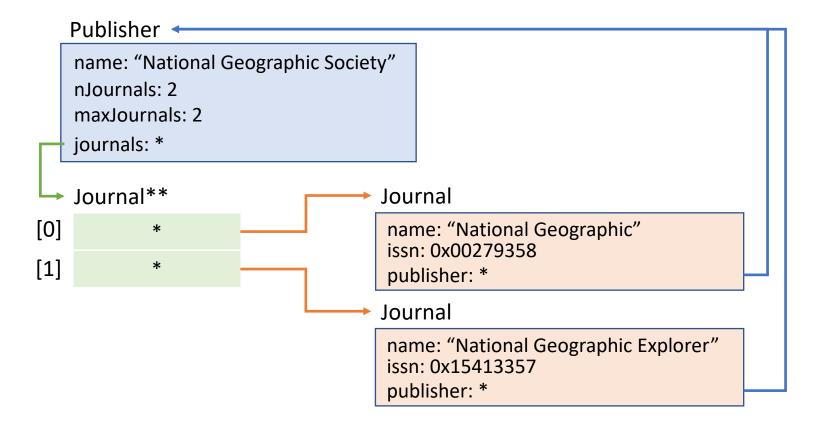


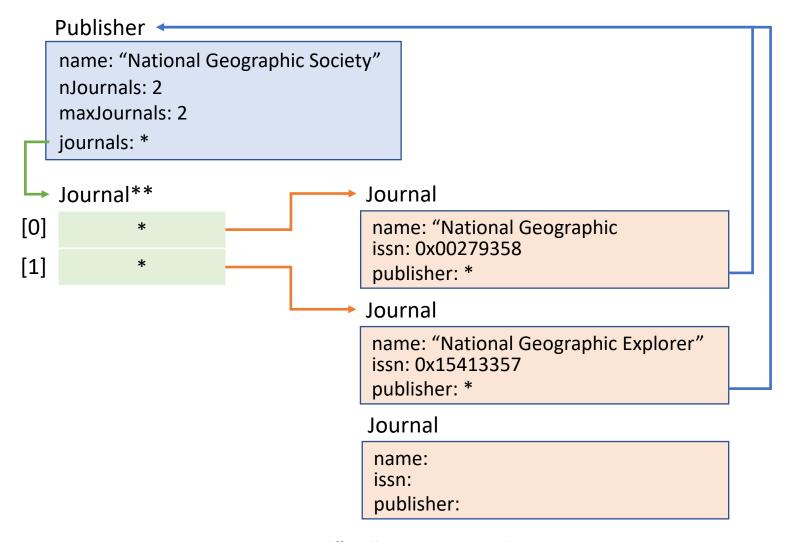




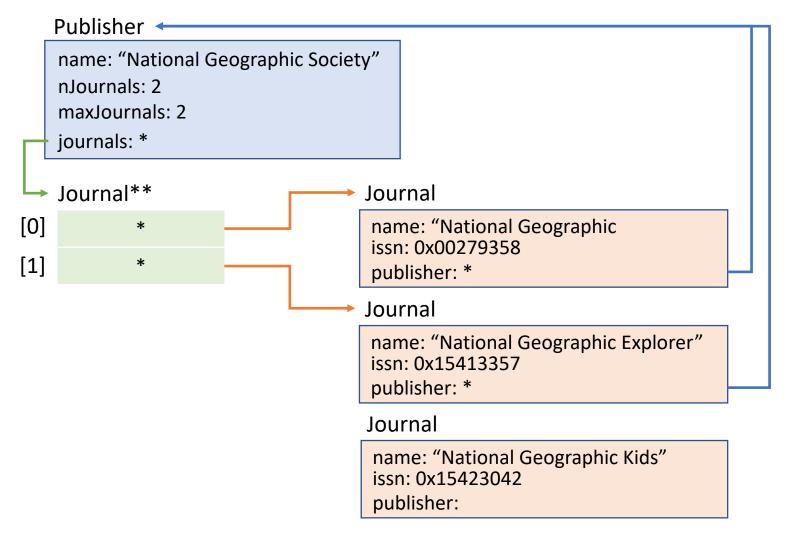




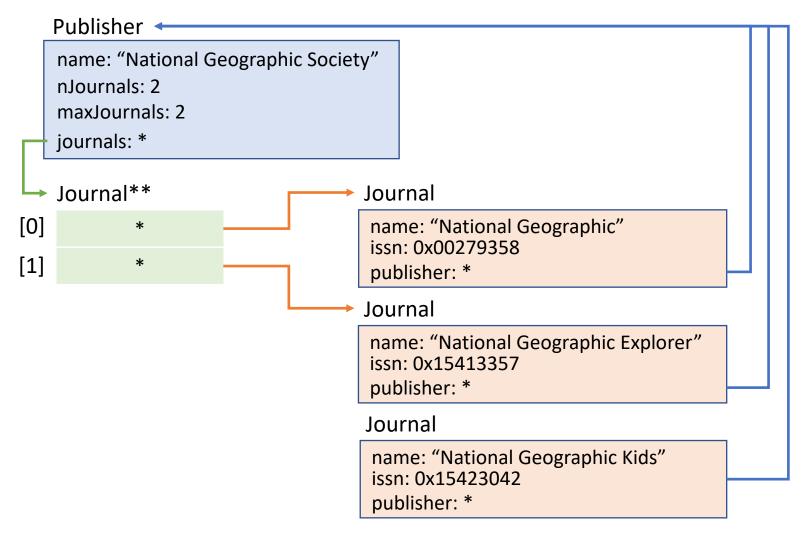




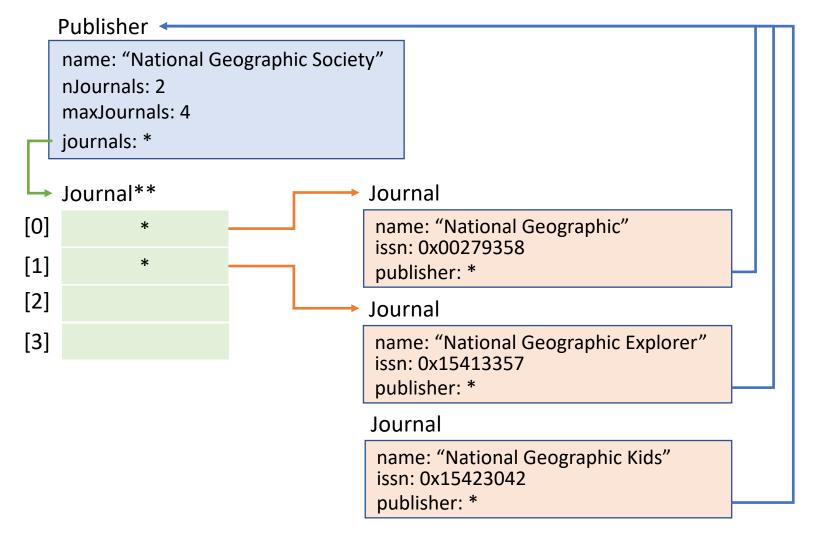
newJournal(): allocate Journal



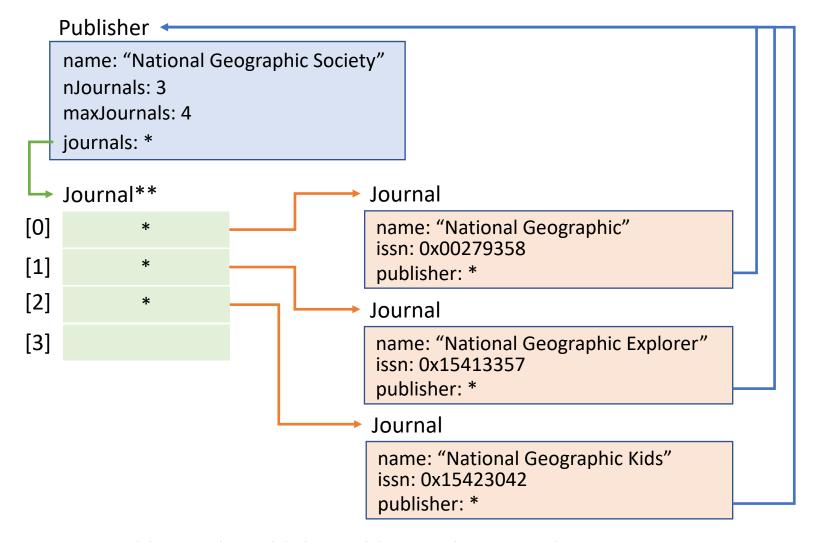
newJournal(): initialize Journal fields



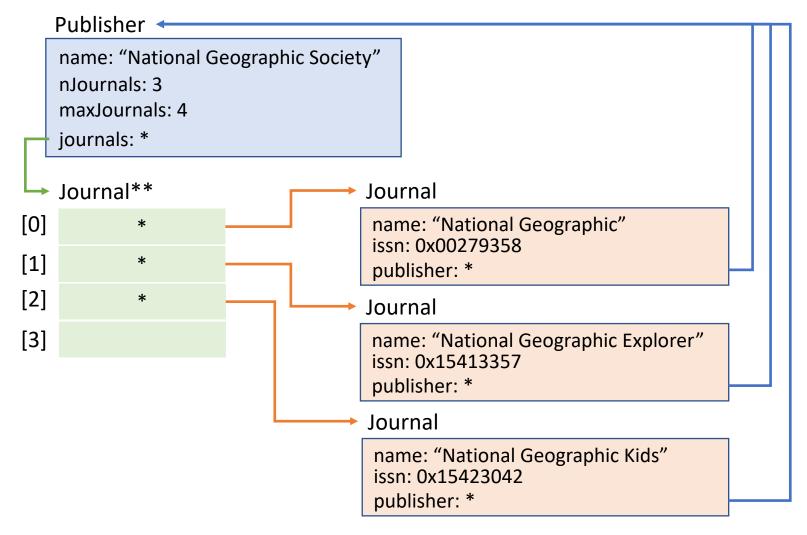
newJournal: link journal to Publisher



addJournalToPublisher: journals array full – realloc array



addJournalToPublisher: add Journal to journals array



main: finished creating Publisher and Journals