Individual Assignment Clarification

Tanzir Ahmed

An Example

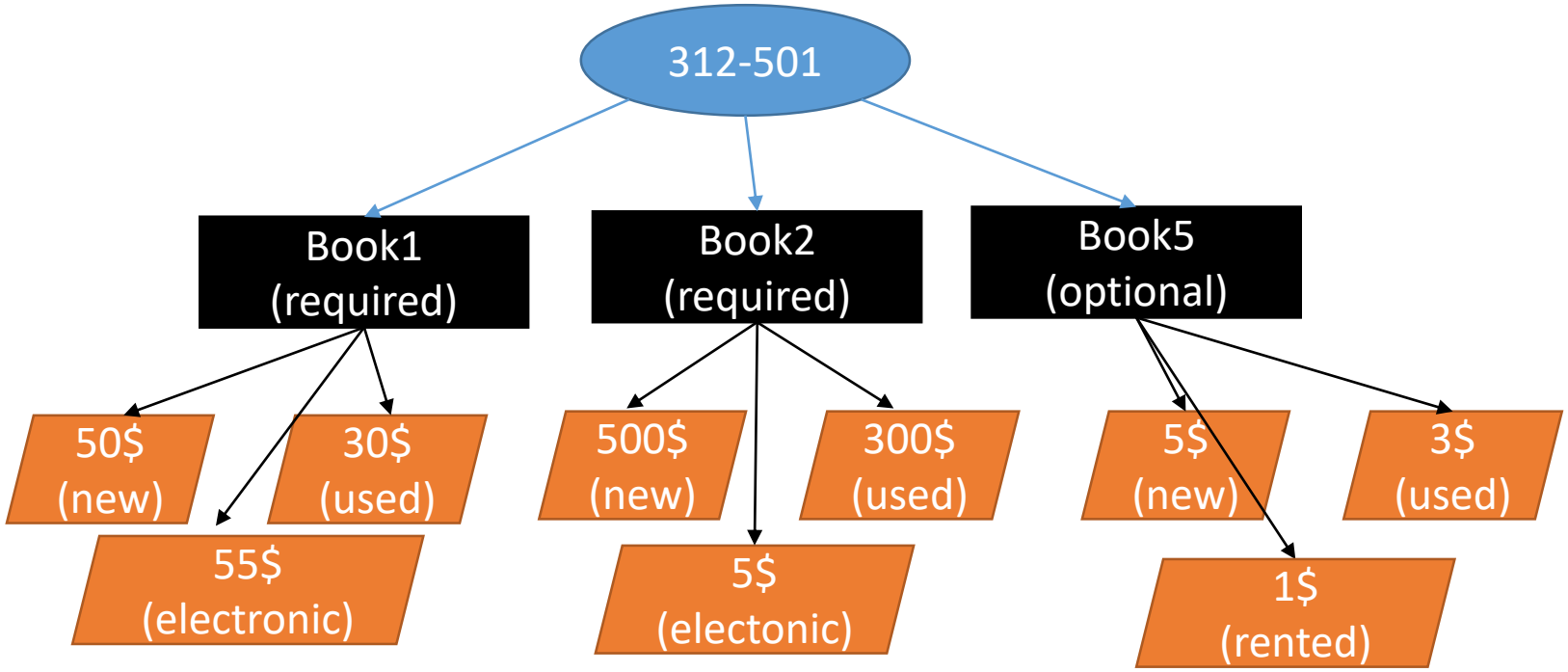
- Lets us assume that we are given the following command:
  - **PM CSCE**
- The CSCE department has the following courses:
  - CSCE 313, which has the following sections:
    - 501, 502, 503
  - CSCE 315, with sections:
    - 501, 502, 503, 504, 505, 506
  - CSCE 312, with sections:
    - 501, 502

Simplification

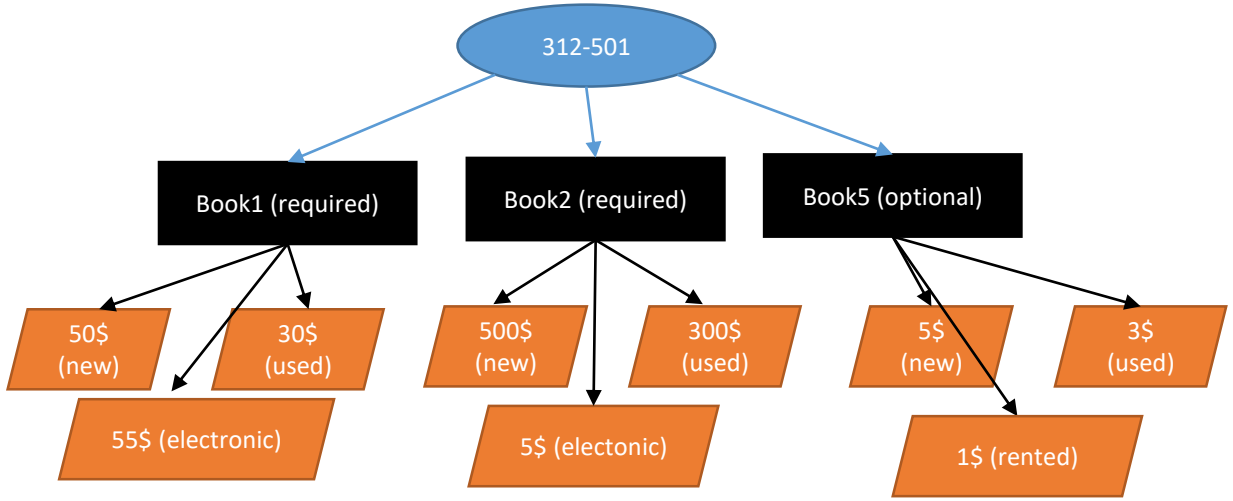
- We will flatten the courses to sections:
  - PM Calculations do not apply to courses; rather they apply directly to the sections
- Therefore, we look at the following list of sections of the CSCE dept:
  - 312-501, 312-502,
  - 313-501, 313-502, 313-503,
  - 315-501, 315-502, 315-503, 315-504, 315-505, 315-506

More Assumptions

- As a result of some “A” commands, the following are the list of books assigned to the section 312-501. Previously, some “B” and “M” commands established the prices of these books under different conditions.
  - Such graphs are obtained for other sections as well



PM Command



- Now, the PM command will do the following for each section. We will only discuss how it works on 312-501:
  - Average Minimum: First it computes the **minimum** cost of for the required books: Book1:30$ and Book2:5$. Book5 is not relevant since it is optional. Then, it computes the **summation**: 35$. Therefore, the minimum cost for 312-501 is 35$. In the same way, it computes a number for each sections that requires some book. Finally, it just averages those numbers.
  - Average Maximum: The calculation is similar except the fact that you do not ignore the optional books. And for each book, find the maximum possible price among different conditions/methods.

To Summarize

- We apply the calculations on the sections, not on courses directly
  - Courses are just a way to get to the sections
  - A section is uniquely identified by its own number and the course number it is part of
- The minimum/maximum operations apply per book
- The average operation applies among all the sections:
  - $$Avg.Minimum = \frac{\sum_{each\ section\ needing\ books} \sum_{each\ equired\ book\ in\ section} \min(all\ version\ for\ that\ book)}{\text{number of sections needing books}}$$
  - Avg. Maximum is similar