The problem statement was something like this:

* Define a book Catalog.
* Book will have author, title, publisher, year of publish, cost, category and sub category, number of sold copies.
* After discussion with panelist, he told me that I should just consider only 1 entity Book and rest all can be treated as strings, in other words, not need to project them as Entities with their own classes.
* There were three APIs to be powered:
  + addBook(Book book): # Adds a book and avoids any duplicates
  + search\_book\_and\_sort\_by\_sold\_copies(query, type) # return books by authorname, title or category
  + search\_book\_by\_prefix(query, type) # get all books where title/authorname/category has query as some prefix
* After more discussion with panelist, the expectation was to solve this use case with help of a Trie DS which I have to code from scratch.
* Expectation is a clear good OO design and good API completion.

- You’ll have 90 minutes to code this