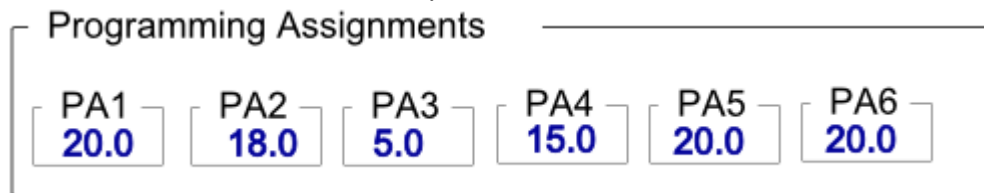




# Specifications: CategoryField

In addition to the obvious specifications illustrated in the UML class diagram, the `CategoryField` class must satisfy the following specifications.

1. Visually, a `CategoryField` object must look something like the following (where the text in blue is representative of information entered by the user).



- 1.1. The information at the top of the `CategoryField` must be the key for the `CompositeGrade`.
  - 1.2. It must contain one `LeafGradeField` for each of the assignment keys that is passed to the constructor.
2. It must have one `LeafGradeField` object for every `Grade` in the template `CompositeGrade` object passed to the constructor.
3. The `getGrade()` method must return a `CompositeGrade` object that has the same `Filter` and `Strategy` objects contained in the template passed to the constructor, and `LeafGrade` objects obtained from the owning `CategoryField` object's `LeafGradeFields`.
4. The `reset()` method must call `reset()` on all of `LeafGradeField` objects.