HW1 EX2

Module
- name: String
- cp

+ getName(): String
+ register(s: Student)

```
Module module = new Module("Dummy", 6);
Lecture oose = new Lecture("OOSE", 6, 18);
```
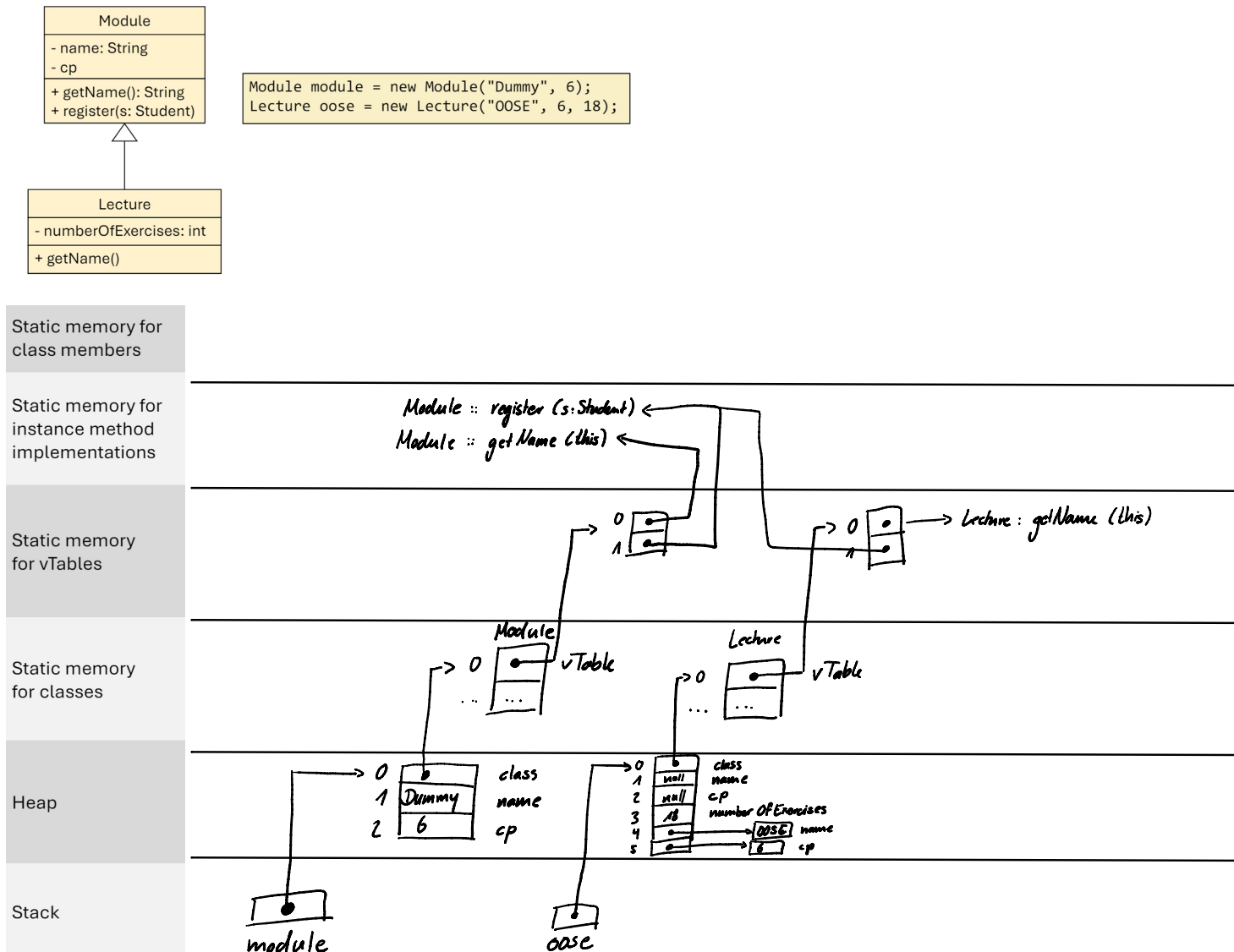
Lecture
- numberOfExercises: int

+ getName()

Description:

Lecture is a subclass of Module. Therefore, Lecture inherits all instance members (name, cp, getName(), register()) of Module. Lecture provides an additional variable numberOfExercises and overrides the method getName(). This means, that the method getName() is redefined with the same name and parameter list. This method is bound dynamically.

New objects are always created in heap space, and the references to these objects are stored in stack memory.
vTable lists all instance methods of a class. The vTable of Lecture consists of all methods from Lecture (getName()) as well as from Module (getName(), register()). It's ordered from high to lowest class (getName(), register(), getName()). Each method has an index and the inherited methods have the same index as in Module.
The attribute access by the compiled code is replaced with an access to their corresponding index in the vTable.