We continue today our class example `RationalNumber` from the lectures. The complete code is included in the lecture notes. This assignment has 6 tasks.

**Task 1**

Write documentation for this class (docstring).

**Task 2**

Change the method `shorten` so that it does not change the object but returns a new object.

**Task 3**

Provide two automatically generated attributes `can_be_shortened` (Boolean) and `factor_for_shortening` (int).

**Task 4**

Change the class in such a way, that a change of the numerator and denominator automatically changes the attributes of the previous task.

**Task 5**

Change the class so that attributes cannot be deleted.

**Task 6**

Check in the course manuscript how to provide special docstrings for attributes with the `property` function and define such docstrings.