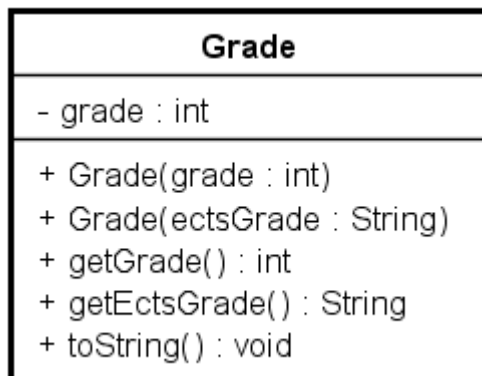


Exercise: Grade



The class `Grade` shown in the class diagram above represents a grade in the Danish 7-scale (i.e. either 12, 10, 7, 4, 2, 0, or -3). The equivalent grades in the international ECTS scale are: {A, B, C, D, E, Fx, F}.

Create a class `Grade` storing a grade (in the Danish 7-scale). The class has:

- One instance variable of type `int` representing the grade in the Danish 7-scale.
- A constructor taking an integer representing the grade in the Danish 7-scale. If the argument is not a legal grade then store -3 in the instance variable.
- A constructor taking a string representing the ECTS grade, i.e. one of the following: {"A", "B", "C", "D", "E", "Fx", "F"}. Convert the ECTS grade to the equivalent Danish 7-scale to store in the instance variable. If the input is not a legal ECTS grade then store -3 in the instance variable.
- A method `getGrade` returning the grade (in the Danish 7-scale).
- A method `getEctsGrade` converting the grade into the equivalent ECTS grade and return this.
- A method `toString` returning a string with the grade both in the Danish 7-scale and in the international ECTS scale.

Implement a test class `GradeTest` and test both constructors and all methods.