

## 1. Statement of the problem

There is a BlueJ project with some classes and interfaces similar to the ones from the 2nd practice session.

Moreover, in order to define and to implement a generic `GrupoDe<T>`, the following classes and interfaces has been included into the BlueJ project: **(1)** an interface called `GrupoDe<T>` and **(2)** a (partially implemented) class, called `GrupoDeAL<T>`, which must implement the `GrupoDe<T>` interface by using an `ArrayList<T>`. These classes and interfaces have been placed in the corresponding Java packages.

1. Complete the generic `GrupoDeAL<T>` taking into account that it must implement the `GrupoDe<T>` interface. The `ArrayList<T>` class must be used to store the elements. Remember that `ArrayList<T>` class has the following useful methods:

- `add(T)`: add an element,
- `remove(int)`: remove an element. The index position is given as the argument and the method returns the removed object,
- `get(int)`: return the element from a given index position,
- `size()`: obtain the number of elements,
- `isEmpty()`: check if the array is empty.

## 2. Test

A *Unit Test* called `GrupoDeALTest` is provided in order to check the correctness. The three tests must be executed satisfactorily. Let us remark that the correct execution of these three tests is a necessary, but not sufficient condition, to ensure the validity of this exam.

## 3. Available time to solve the problem

The student has 45 minutes to solve the problem.