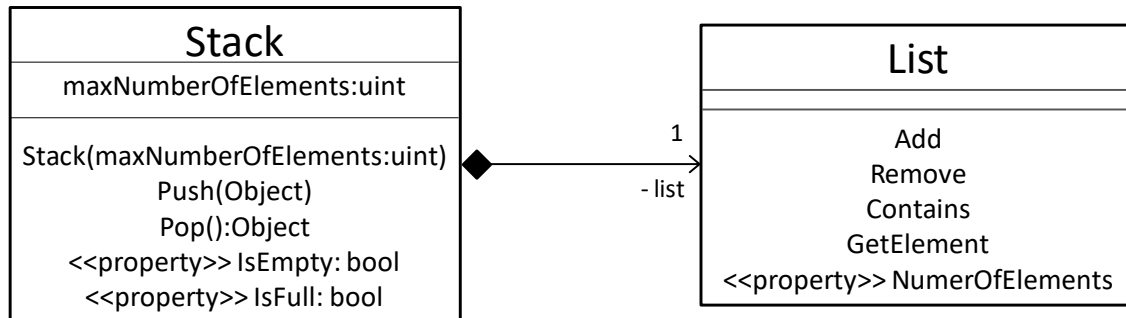


Mandatory Activity. Object Oriented Paradigm. Lab 03.

This activity must be autonomously done by the student. **It must be done prior to the following laboratory class.** It will be used as part of the following laboratory.

Activity

Reusing the `List` class of the previous laboratory class, implement a polymorphic `Stack` class, following the subsequent design:



The implementation of `Stack` must follow the design by contract. Therefore

- Class invariants must be identified and implemented.
- Preconditions and postconditions of public methods should be identified and implemented.

Use the appropriate mechanisms provided by C# to implement the class contract.

Test its correct behavior by using the testing tool of Visual Studio.

Optional Activity. Object Oriented Paradigm. Lab 03.

The following activity is not mandatory.

Activity

Identify the contract (class invariant and preconditions and postconditions of public methods) of the polymorphic `List` class. Add the contract implementation to the existing list.

Test its correct behavior by using the testing tool of Visual Studio.