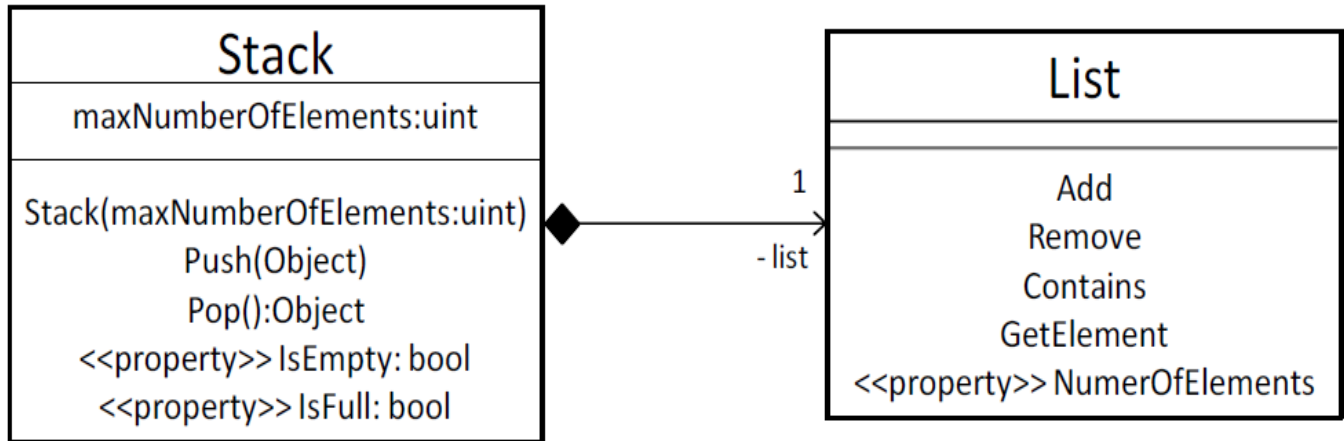


## Mandatory Activity. Object Oriented Paradigm. Lab 03.

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 post conditions of public methods should be identified and implemented.

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

Test its correct behaviour by using the testing tool of Visual Studio (like the previous laboratory). Introduce in the **Stack** objects from classes we have created in previous laboratories.

## Optional Activity. Object Oriented Paradigm. Lab 03.

**The following activity is not mandatory.**

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

Test its correct behaviour by using the testing tool of Visual Studio. Introduce in the **List** objects from classes we have created in previous laboratories.