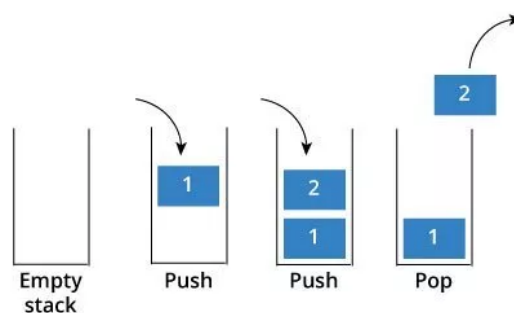


NOMBRE		CICLO FORMATIVO	CURSO
		DAW	1º
APELLIDOS		MODULO	CONVOCATORIA
		PROGRAMACIÓN	ORDINARIA
DNI	FECHA	NOTA	
	8 DE MARZO DE 2019		

1. (4p.) Implements a generic stack that can store generic types. The stack must meet the following requirements:

- The stack must have dynamic memory allocation.
- The stack must have a method to *Push* and a method to *Pop*
- The stack **must not contain** getters or setters for the attributes, and these must be private.
- The Stack class must have a *toString()* method to display the elements of the stack.



2. (1p) Create a class Student that inherits from the Person class. The student class must store the student's NIA, and implements the necessary getters and setters to access and modify its attributes and the *toString()* method.

```

public abstract class Person {

    protected String name;
    protected String surname;

    public Person(String name, String surname) {
        this.name = name;
        this.surname = surname;
    }

    public String getName() {
        return name;
    }

    public String getSurname() {
        return surname;
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setSurname(String surname) {
        this.surname = surname;
    }

}
    
```

NOMBRE	APELLIDOS	

3. (2p.) Write a method `invertStack()`, that inverts the contents of one stack in another. The method will have two stack-type arguments, one for the source stack and one for the target stack. You must use the operations defined from the previous exercises.

### InvertStack()



4. (1,5p.) Create a method to copy the stack into a file.
5. (1,5p.) Create a Test class that includes the following steps:
1. Create a couple of students
  2. Create a Stack
  3. Insert students in the stack
  4. View the stack
  5. Invert the stack to another stack
  6. Visualize the new Stack
  7. Copy the stack into a file

**Important.**- If you have not implemented any class or method, solve the rest of the exam assuming that you have implemented it.