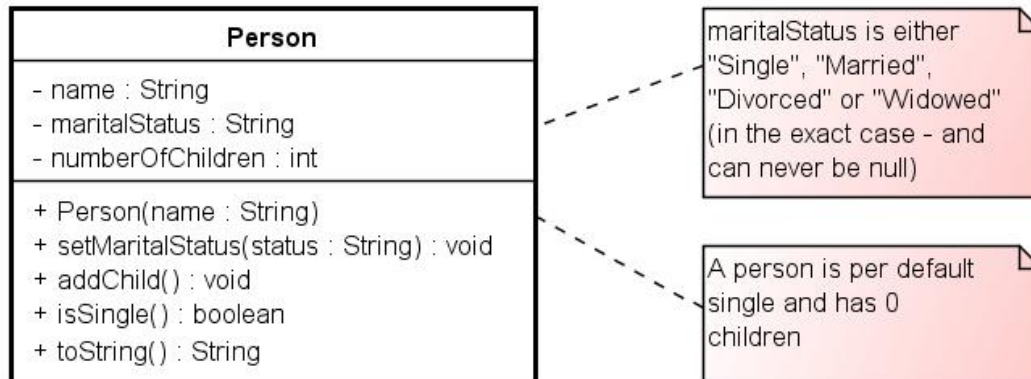


Exercise, SDJ1

Exercise: Marital status

Implement a class `Person` exactly as shown in the UML class diagram below



A few notes:

- Remember the purpose for a constructor.
- Method `setMaritalStatus(...)` only sets the status if the argument is “Single”, “Married”, “Divorced” or “Widowed”. If the argument is one of these but not in lower case with the first letter in upper case then accept it but store the status in the correct case.
- Method `addChild()` is updating the instance variable `numberOfChildren` (one more child)
- Method `isSingle()` returns true if the marital status is “Single”. Otherwise returns false.
- Method `toString()` returns a string with information of the name, marital status and number of children of the person. If the person has 0 or more than 1 child then put the word "children" as part of the string and if only one child the put the word "child" as part of the string.

Implement a class `PersonTest` with a main method in which you at least do the following:

- Create a `Person` object calling the constructor with a name after your choice
- Print out all information of the person
- Now update the person to be married and has two children.
- Print out all information of the person again
- Print out if the person is single