Mistake: treating a value type as a reference type

This lesson will show two erroneous attempts of assuming a value type as a reference type.

Suppose that the increaseAge method was erroneously implemented like this:

The age stays 22 even after executing the increaseAge function. Primitive types are passed by value. Changing the copied value has no effects on the original value. Always encapsulate the fields you would like to change with an array or an object.

Another example is an erroneous attempt to replace a person with another one. Suppose that the replacePerson function accepts 3 arguments: the person to be replaced, and the name and age of the new person.







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This function does not do anything to the people object as the person argument was assigned a new value. The people data structure stays intact. The person handle inside the function references a completely new object after the assignment. Once this function terminates, the new object is thrown away.