Bank Soal OFSE Programming

# Java Class and Methods

## What is meant by garbage collection?

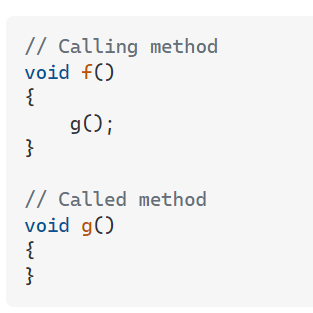
Garbage collection is the process of deconstructing unused objects or objects without reference to save memory. In Java, this process is automatically done by having the virtual machine of Java constantly checking for objects with no reference. Objects with no reference, will automatically be deconstructed.

## What are methods and how are they defined?

A method in Java is a block of code that, when called, performs specific actions mentioned in it. For instance, if you have written instructions to draw a circle in the method, it will do that task. You can insert values or parameters into methods, and they will only be executed when called.

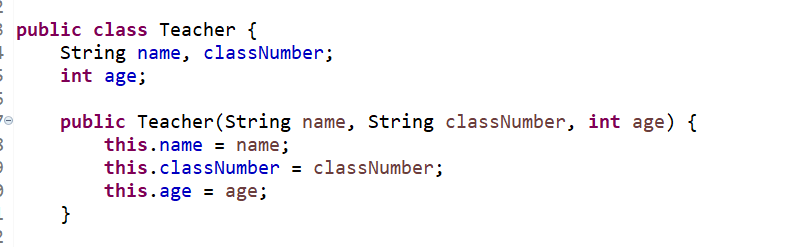
## What is calling method? Give an example!

The calling method is the method that is being called. The callee is the method that calls the method.



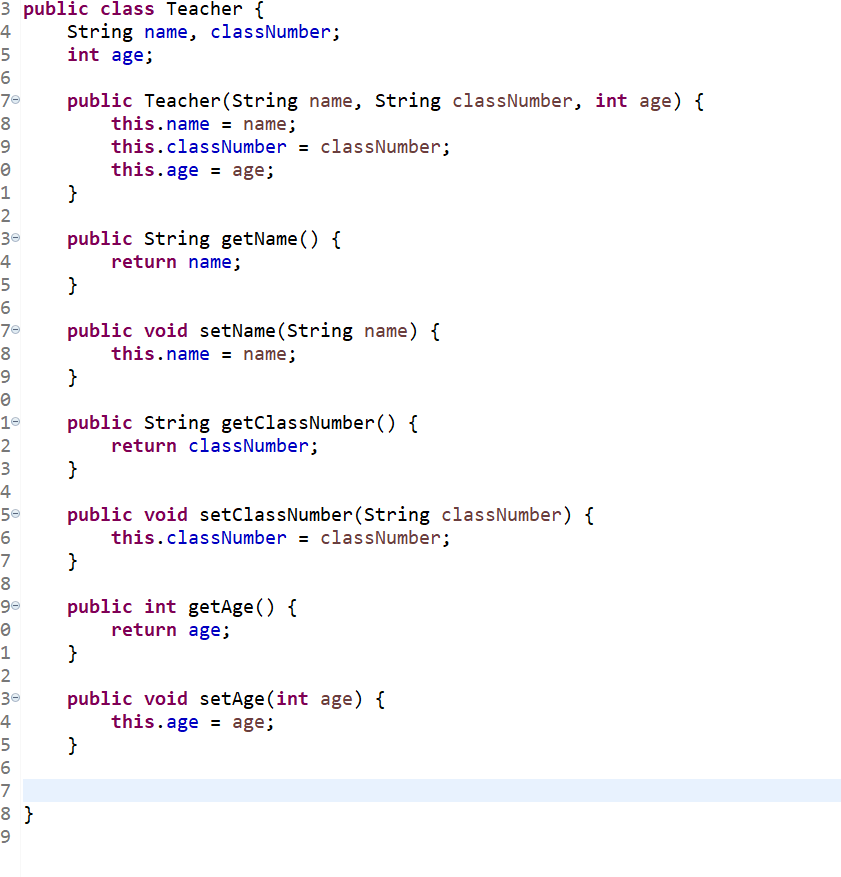
## What is a constructor? Give an example!

It is a method that is used to initialize an object. The constructor is called when an object of a class is created.



## Suppose a given instance variable has been declared private. Can this instance variable manipulated by methods outside its class? Explain your answer. (a.yes, b.no)

No, private methods cannot be directly be manipulated from outside of its class. However, it can be manipulated from a method from inside its class. For example, using a “setter” and “getter” methods.



## Which of the following statements can be used to describe a public method? (It is accessible to all other classes in the hierarchy, It is accessible only to subclasses of its parent class, It represents the public interface of its class the only way to gain access to this method is by calling one of the public class methods)

## What is meant by "Passing by value" and " Passing by reference"?

## What is an “unchecked runtime exception”?

## What are identifiers and what is naming convention?