

FCE Computer Science 2018

## de test

For the following exercises use your preferred programming language to solve them. Don't worry about user input (you will receive it as params)

- 1. Foobar, given a limit number N, count from 1 to N, but print "foo" if N is odd and print "bar" if N is even.
- 2. Given a limit, print all the odd (par) numbers from 0 up to that limit

Example: count(4) => 0, 2, 4

count(5) => 0, 2,4

- 3. Count how many occurrences of a letter are present in a word. Example: foo("the sentence", "e") => 4
- 4. Given an array of positive ints, return the largest (max) Example: max( [10 , 3, 2, 20 ] ) => 20

5. Array Replacer, given an int array, a X number and Y replacer, write a function that replaces X with Y and returns the new array.

Example: replace([1,3,4], 4, 42) => [1,3,42]



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6.	Receive three strings and print the concatenation of them:  Example: concat("A", "B", "C") => "ABC"
7.	Write a Class "username", that contains the following Public fields: username, fullname, email, age, password. It can have many constructors.
8.	From the previous exercise write a public method changePassword(String newpassword), that will change the user's current password for the new password.
9.	From exercise #7 create a public method printFullName() that will print out pretty the Full Name of the username.



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10. Given the following Animal class:

```
Public class Animal {
    public void sleep() {
        System.out.println("Sleeping: Zzzzz");
    }
    public void makeNoise() {
        System.out.println("Noises...");
    }
    public void roam() {
        System.out.println("Roamin' on the plain.");
    }
}
```

## Create the following:

- Dog:
  - o A Dog class that inherits from Animal
  - override makeNoise to "Barking: Guau Guau!" or "Barking: woof woof!" whatever your dog really barks like.
- Cat:
  - o A Cat class that inherits from Animal
  - Override makeNoise to "Miauing: miau"