

Question1 : Check Code Below , Then Determine What is The Output if we call function iFoundaBall() 20 Times ?

```
class dragonBall{
    private $ballCount;

    public function __construct(){
        $this->ballCount=0;
    }

    public function iFoundaBall(){
        $this->ballCount++;
        if($this->ballCount===7){
            echo "You can ask for your wish.";
            $this->ballCount=0;
        }
    }
}
```

Question 2: True Or False

- 1- Php Support Multiple Inheritance For Classes
- 2- A constructor is a method that is called when an instance of a class is created.
- 3- A destructor is a method which is automatically called when the object is made of scope or destroyed
- 4- Final Class Cannot Be instantiated
- 5- The ternary operator is said to be an operator which takes three arguments
- 6- Inheritance describes the ability to create new classes based on an existing class.

7- Polymorphism means that you can have multiple classes that can be used interchangeably, even though each class implements the same properties or methods in different ways

8- Encapsulation is the hiding of data at Implementation Level

9- Method Overloading means changing the implementation of an inherited method.

10- Method Overriding is also known Compile time Polymorphism (or Static polymorphism)

Question 3 : Let's Code

1-

Create a function that takes an array of numbers and return its median. If the input array is even length, take the average of the two medians, else, take the single median.

Examples

```
median([2, 5, 6, 2, 6, 3, 4]) → 4  
median([21.4323, 432.54, 432.3, 542.4567]) → 432.4  
median([-23, -43, -29, -53, -67]) → -43
```

Notes

- Input can be any negative or positive number.
- Input array will contain at least four numbers.

2-

Create a function that takes two strings and returns either `true` or `false` depending on whether they're anagrams or not.

Examples

```
isAnagram("cristian", "Cristina") → true  
isAnagram("Dave Barry", "Ray Adverb") → true  
isAnagram("Nope", "Note") → false
```

Notes

- Should be case insensitive.
- The two given strings can be of different lengths.

3-

Write a program with a mother class animal. Inside it define a name and an age variables, and `set_value()` function. Then create two base variables Zebra and Dolphin which write a message telling the age, the name and giving some extra information (e.g. place of origin).

...

4-

Your task is to create a Circle constructor that creates a circle with a radius provided by an argument. The circles constructed must have two getters `getArea()` (πr^2) and `getPerimeter()` ($2\pi r$) which give both respective areas and perimeter (circumference).

For help with this class, I have provided you with a Rectangle constructor which you can use as a base example.

Examples

```
$circo = new Circle(11);  
$->getArea();  
  
// Should return 380.132711084365  
  
$circo = new Circle(4.44);  
$->getPerimeter();  
  
// Should return 27.897342763877365
```

Notes

Don't worry about floating point precision - I've factored in the chance that your answer may be more or less accurate than mine. This is more of a tutorial than a challenge so the topic covered may be considered advanced, yet the challenge is more simple - so if this challenge gets labelled as easy, don't worry too much.

5-

Consider the following problem:

```
Write a short program that prints each number from 1 to 100 on a new line.  
  
For each multiple of 3, print "Fizz" instead of the number.  
  
For each multiple of 5, print "Buzz" instead of the number.  
  
For numbers which are multiples of both 3 and 5, print "FizzBuzz" instead of the number.
```

Write a solution (or reduce an existing one) so it has as few characters as possible.

GoodLuck 😊