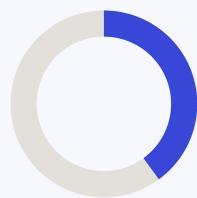


Results report

PHP developer assessment



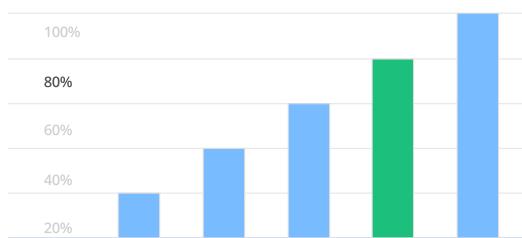
1. Result



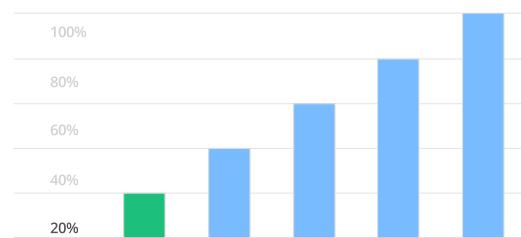
Correct answers: 4/10

2. Domains

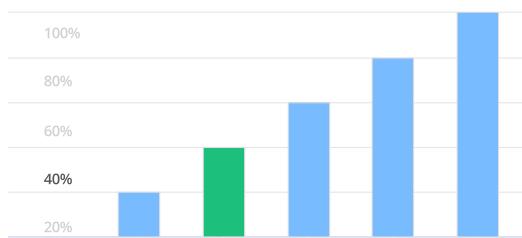
PHP Core Language and Functions



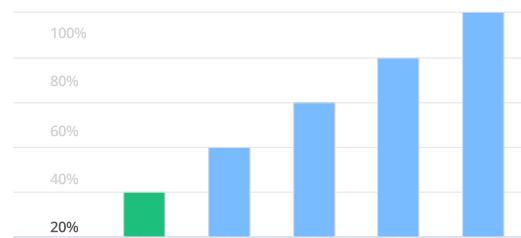
Algorithmic



Applied PHP



PHP Objects, Patterns, and Design



3. List of questions

Number	I.D.	Question	Time spent	Correct
1	PHPEN0016	Using a loop to concatenate a string Code	4:42	✓
2	PHPEN0029	Creating an abstract class Code	1:27	✗
3	PHPEN0020	Creating a function and throwing an Exception Code	1:59	✓
4	PHPEN0021	Passing a parameter by reference Code	4:05	✗
5	PHPEN0041	Creating a method accessible only to descendants Code	1:45	✓
6	PHPEN0034	Capturing the output and assigning it to a string Code	2:09	✓
7	PHPEN0070	Breaking down an URL into constituent parts Code	11:53	✗
8	PHPEN0044	Creating a method that cannot be overridden Code	49s	✗
9	PHPEN0073	Setting the default time zone and acquiring time zone data Code	30s	✗
10	PHPEN0076	Writing a dichotomic algorithm Code	15:02	✗

Subject: Using a loop to concatenate a string

Score: 100.0

Implement the `DisplayNumbers()` function, use a `for` (or similar) statement to count up from 1 to the argument `$maximum` (your count should be inclusive of `$maximum`).
so that you end up with a string that looks something like this: `1/2/3/4/5/6/`

For each loop iteration concatenate a string with the loop count and the delimiter `"`.
Print this string without formatting or a new line.

Test cases output

```
1/2/3/4/5/6/7/8/  
Assessment success:  
Your method has displayed the correct string.  
*****  
Assessment message  
*****  
Question score: 100.0 (computation time Unknown)  
*****
```

Candidate code

Subject: Creating an abstract class

Score: 50.0

Create an abstract class named Person with abstract methods getName() and getAge().

Test cases output

The code didn't produce any output or wasn't executed by the candidate.

Candidate code

Subject: Creating a function and throwing an Exception

Score: 100.0

Create a function named `addTen()` which accepts a numeric value (int or double) and returns the given value incremented by 10.

Exception.

If the given value is not numeric, throw an

Test cases output

```
10+5=15
An exception has been thrown.
Assessment success:
addTen function is defined.
Assessment success:
addTen(121) returned 131.
Assessment success:
addTen has thrown an exception when called with a string argument.
```

```
*****
Assessment message
*****
Question score: 100.0 (computation time Unknown)
*****
```

Candidate code

Subject: Passing a parameter by reference

Score: 0

Create a function named stickyPlusOne() which accepts an integer parameter and increments it by 1. Return this new value, but also ensure that any variables outside of the function which point to the parameter value are automatically incremented without further assignment.

You may treat the function parameter as an integer without checking its type.

Test cases output

```
starting with number: 278, calling stickyPlusOne.  
Assessment error:  
expected return value 279, Got 1  
  
*****  
Assessment message  
*****  
Question score: 0.0 (computation time Unknown)  
*****
```

Candidate code

Subject: Creating a method accessible only to descendants

Score: 100.0

Add a `getMarkup()` method to the `BasePrice` class that returns the value of the `$markup` property. Use privacy settings to ensure that only a subclass can access this method. (Note: the value `$markup` may change at runtime).

Test cases output

```
Assessment success:  
getMarkup() is defined  
Assessment success:  
getMarkup() is protected  
Assessment success:  
getMarkup returns correctly the value of the $markup property  
  
*****  
Assessment message  
*****  
Question score: 100.0 (computation time Unknown)  
*****
```

Candidate code

Subject: Capturing the output and assigning it to a string

Score: 100.0

Finish the function `getRandomAsString()` so that it calls `printRandom()`. It should also capture the output of `printRandom()` and return it as a string variable.

Test cases output

```
returned value: bbb

Assessment success:
getRandomAsString() successfully returned the printRandom() output

*****
Assessment message
*****
Question score: 100.0 (computation time Unknown)
*****
```

Candidate code

Subject: Breaking down an URL into constituent parts

Score: 0

Implement the `modifyUrl()` function so that it breaks down a URL and returns its parts in an associative array.

Assume that the URL is well-formed and includes at least a scheme and a host. You may find standard specialized PHP functions to help with processing the provided URL. If parsing is impossible, return `false`.

The return array should take the following form:

- `scheme`: (String) `http` or `ftp` for example.

- `host`: (String) the host.

- `port`: (String) (where supplied), `8080` for example.

- `path`: (String) (where supplied), the path portion.

- `query`: (array) (where supplied) the query string - that is the value that comes after a question mark.

`query` should be extracted from the query string. For the purposes of this exercise you can assume that all query strings will follow this pattern:

The keys and values for

`key1=value1&key2=value2`. In other words, key/value pairs will be separated by ampersand (`&`) characters, and keys will be separated from values by equals (`=`) characters. Both keys and values will be URL-encoded. Your script should decode them.

Test cases output

```
Array
(
    [scheme] => https
    [host] => www.isograd.com
    [port] => 9090
    [path] => /path/to/file
```

Candidate code

Subject: Creating a method that cannot be overridden

Score: 0

Create a method called `execute()` in the `Command` class which calls the abstract `doExecute()` method and returns the result (*50 points*).

at compile time

for a child class to override `execute()` (*50 points*).

Make it impossible

Test cases output

The code didn't produce any output or wasn't executed by the candidate.

Candidate code

Subject: Setting the default time zone and acquiring time zone data

Score: 0

Implement the `setZoneGetInfo()` function so that it sets the default timezone to the given value for the lifetime of the script. Use a specialized function call and not `ini_set()` or similar for this purpose. \$timezoneInfo array with the following elements:

- 0=> The offset from GMT for the given time zone at the current time (in seconds).
- 1=> An associative array with at least the following values for the given time zone:
 - country_code => [country code for time zone],
 - latitude => [latitude for time zone],
 - longitude => [longitude for time zone]

Populate the

These values are all available using standard PHP functions.

Test cases output

The code didn't produce any output or wasn't executed by the candidate.

Candidate code

Subject: Writing a dichotomic algorithm

Score: 0

The Game class presents a game in which you need to find an integer number between 0 and 10 000. When a Game instance is created, it generates a random number. The propose() method allows you to pass a number to the instance and returns:

When a	1 if the proposed number is greater than the number to guess
	0 if the proposed number is equal to the number to guess
	-1 if the proposed number is smaller than the number to guess

propose() method more than 15 times. The guess() function that seeks and returns the number to guess of the Game instance provided. It is not possible to call the guess() function.

Write the

Test cases output

```
Assessment error:  
propose() method has been executed 15 times  
Assessment error:  
your algorithm did not return any value  
*****  
Assessment message  
*****  
Question score: 0.0 (computation time Unknown)  
*****
```

Candidate code

4. Other informations

Administrator comments

There is no administrator comment.

Candidate comments

The candidate has not left any comment.

Test protocol

No incident occurred during the test.

Exam protocol review comment

No comment for now