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PHP Basic - Exercises, Practice, Solution

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PHP basic [102 exercises with solution]

[**An editor is available at the bottom of the page to write and execute the scripts.** Go to the editor (<https://www.w3resource.com/php-exercises/php-basic-exercises.php#editorr>)]

1. Write a PHP script to get the PHP version and configuration information.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-1.php>)

2. Write a PHP script to display the following strings.

Sample String :

'Tomorrow I \'ll learn PHP global variables.'

'This is a bad command : del c:*.*'

Expected Output :

Tomorrow I 'll learn PHP global variables.

This is a bad command : del c:*.*

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-2.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-2.php)

3. \$var = 'PHP Tutorial'. Put this variable into the title section, h3 tag and as an anchor text within an HTML document.

Sample Output :

PHP Tutorial

PHP, an acronym for Hypertext Preprocessor, is a widely-used open source general-purpose scripting language. It is a cross-platform, HTML embedded server-side scripting language and is especially suited for web development.

[Go to the PHP Tutorial.](#)

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-3.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-3.php)

4. Create a simple HTML form and accept the user name and display the name through PHP echo statement.

Sample output of the HTML form :

Please input your name:

	Submit Name
--	-------------

Hello

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-4.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-4.php)

5. Write a PHP script to get the client IP address.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-5.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-5.php)

6. Write a simple PHP browser detection script.

Sample Output : Your User-Agent is: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/35.0.1916.114 Safari/537.36

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-6.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-6.php)



7. Write a PHP script to get the current file name.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-7.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-7.php)

8. Write a PHP script, which will return the following components of the url '<https://www.w3resource.com/php-exercises/php-basic-exercises.php>'.

List of components : Scheme, Host, Path

Expected Output :

Scheme : http

Host : www.w3resource.com

Path : /php-exercises/php-basic-exercises.php

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-8.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-8.php)

9. Write a PHP script, which changes the color of the first character of a word.

Sample string : PHP Tutorial

Expected Output :

PHP Tutorial

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-9.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-9.php)

10. Write a PHP script, to check whether the page is called from 'https' or 'http'.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-10.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-10.php)

11. Write a PHP script to redirect a user to a different page .

Expected output : Redirect the user to <https://www.w3resource.com/>

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-11.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-11.php)

12. Write a simple PHP program to check that emails are valid.

Hints : Use FILTER_VALIDATE_EMAIL filter that validates value as an e-mail address.

Note : The PHP documentation does not say that FILTER_VALIDATE_EMAIL should pass the RFC5321.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-12.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-12.php)

13. Write a e PHP script to display string, values within a table.

Note : Use HTML table elements into echo.

Expected Output :

Salary of Mr. A is	1000\$
Salary of Mr. B is	1200\$
Salary of Mr. C is	1400\$

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-13.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-13.php)

14. Write a PHP script to display source code of a webpage (e.g. "http://www.example.com/").

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-14.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-14.php)

15. Write a PHP script to get last modified information of a file.

Sample filename : php-basic-exercises.php

Sample Output : Last modified Monday, 26th June, 2017, 12:43pm

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-15.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-15.php)

16. Write a PHP script to count number of lines in a file.

Note : Store a text file name into a variable and count the number of lines of text it has.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-16.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-16.php)

16.php)

17. Write a PHP script to print current PHP version.

Note : Do not use `phpinfo()` function.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-17.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-17.php>)

18. Write a PHP script to delay the program execution for the given number of seconds.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-18.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-18.php>)

19. Arithmetic operations on character variables : `$d = 'A00'`. Using this variable print the following numbers.

Sample Output :

A01

A02

A03

A04

A05

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-19.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-19.php>)

20. Write a PHP script to get the last occurred error.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-20.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-20.php>)

21. Write a PHP function to test whether a number is greater than 30, 20 or 10 using ternary operator.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-21.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-21.php>)

22. Write a PHP script to get the full URL.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-22.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-22.php>)

23. Write a PHP script to compare the PHP version.

Note : Use `version_compare()` function and `PHP_VERSION` constant.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-23.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-23.php>)

24. Write a PHP script to get the name of the owner of the current PHP script.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-24.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-24.php>)

25. Write a PHP script to get the document root directory under which the current script is executing, as defined in the server's configuration file.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-25.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-25.php>)

26. Write a PHP script to get the information about the operating system PHP is running on.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-26.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-26.php>)

27. Write a PHP script to print out all the credits for PHP.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-27.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-27.php>)

28. Write a PHP script to get the directory path used for temporary files.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-28.php>)

29. Write a PHP script to get the names of the functions of a module.

Note : Find XML, JSON functions etc.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-29.php>)

30. Write a PHP script to get the time of the last modification of the current page

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-30.php>)

31. Write a PHP program to swap two variables.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-31.php>)

32. Write a PHP program to check whether a number is an Armstrong number or not. Return true if the number is Armstrong otherwise return false.

Note: An Armstrong number of three digits is an integer so that the sum of the cubes of its digits is equal to the number itself. For example, 153 is an Armstrong number since $1^{**}3 + 5^{**}3 + 3^{**}3 = 153$

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-32.php>)

33. Write a PHP program to convert word to digit.

Input: zero;three;five;six;eight;one

Output: 035681

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-33.php>)

34. Write a PHP program to check the bits of the two given positions of a number are same or not.

112 - > 01110000

Test 2nd and 3rd position

Result: True

Test 4th and 5th position

Result: False

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-34.php>)

35. Write a PHP program to remove duplicates from a sorted list.

Input: (1,1,2,2,3,4,5,5)

Output: (1,2,3,4,5)

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-35.php>)

36. Write a PHP program to test if a given string occurs at the end of another given string.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-36.php>)

37. Write a PHP program to compute the sum of the prime numbers less than 100.

Note: There are 25 prime numbers are there in less than 100.

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97 and sum of all these numbers is 1060.

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-37.php>)

38. Write a PHP program to valid an email address.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-38.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-38.php>)

39. Write a PHP program to get the size of a file.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-39.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-39.php>)

40. Write a PHP program to calculate the mod of two given integers without using any inbuilt modulus operator.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-40.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-40.php>)

41. Write a PHP program to print out the multiplication table upto 6*6.

Output:

1	2	3	4	5	6
2	4	6	8	10	12
3	6	9	12	15	18
4	8	12	16	20	24
5	10	15	20	25	30
6	12	18	24	30	36

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-41.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-41.php>)

42. Write a PHP program to find the first non-repeated character in a given string.

Input: Green

Output: G

Input: abcdea

Output: b

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-42.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-42.php>)

43. Write a PHP program that multiplies corresponding elements of two given lists.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-43.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-43.php>)

44. Write a PHP program to print out the sum of pairs of numbers of a given sorted array of positive integers which is equal to a given number.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-44.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-44.php>)

45. Write a PHP program to compute the sum of the digits of a number.

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-45.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-45.php>)

46. Write a PHP program to find heights of the top three building in descending order from eight given buildings.

Input:

0 = height of building (integer) = 10,000

Output:

Heights of the top three buildings:

45

25

24

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-46.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-46.php>)

47. Write a PHP program to compute the digit number of sum of two given integers.**Input:**

Each test case consists of two non-negative integers x and y which are separated by a space in a line.

$0 = x, y = 1,000,000$

Output:

```
Digit number of sum of two given integers: 2
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-47.php>)

48. Write a PHP program to check whether three given lengths (integers) of three sides form a right triangle. Print "Yes" if the given sides form a right triangle otherwise print "No".**Input:**

Integers separated by a single space.

$1 = \text{length of the side} = 1,000$

Output:

```
YES
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-48.php>)

49. Write a PHP program which solve the equation:
$$ax+by=c$$

$$dx+ey=f$$

Print the values of x, y where a, b, c, d, e and f are given.

Input:

a,b,c,d,e,f separated by a single space.

$(-1,000 = a,b,c,d,e,f = 1,000)$

Output:

```
Values of x and y:
```

```
-1.684 2.737
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-49.php>)

50. Write a PHP program to compute the amount of the debt in n months. The borrowing amount is \$100,000 and the loan adds 5% interest of the debt and rounds it to the nearest 1,000 above month by month.**Input:**

An integer n ($0 = n = 100$).

Output:

```
Amount of debt: 137000
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-50.php>)

51. Write a PHP program which reads an integer n and find the number of combinations. of a,b,c and d ($0 \leq a,b,c,d \leq 9$) where $(a + b + c + d)$ will be equal to n .**Input:**

n ($1 = n = 50$)

Output:

```
Number of combinations of a,b,c and d: 56
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-51.php>)

52. Write a PHP program to print the number of prime numbers which are less than or equal to a given integer.**Input:**

n (1 = n = 999,999)

Output:

```
Number of prime numbers which are less than or equal to n: 618
```

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-52.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-52.php>)

53. Write a PHP program to compute the radius and the central coordinate (x, y) of a circle which is constructed by three given points on the plane surface.

Input:

x1, y1, x2, y2, x3, y3 separated by a single space.

Output:

```
Central coordinate(x,y) and radius of the circle:  
(1.000 1.000) 1.414
```

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-53.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-53.php>)

54. Write a PHP program to compute and print sum of two given integers (more than or equal to zero). If given integers or the sum have more than 80 digits, print "overflow".

Output:

```
46  
overflow  
overflow  
...  
overflow  
overflow
```

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-54.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-54.php>)

55. Write a PHP program that accepts six numbers as input and sorts them in descending order.

Input: Input consists of six numbers n1, n2, n3, n4, n5, n6 (-100000 = n1, n2, n3, n4, n5, n6 = 100000). The six numbers are separated by a space.

Output:

```
After sorting the said integers:  
9 8 7 6 4 2
```

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-55.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-55.php>)

56. Write a PHP program to test whether two lines PQ and RS are parallel.

The four points are P(x1, y1), Q(x2, y2), R(x3, y3), S(x4, y4).

Input:

```
2  
1.0 0.0 3.0 2.0 2.0 0.0 0.0  
4.0 3.0 10.0 7.0 14.0 5.0 8.0 10.0
```

Output:

```
PQ and RS are parallel.  
PQ and RS are not parallel.
```

[Click me to see the solution](https://www.w3resource.com/php-exercises/php-basic-exercise-56.php) (<https://www.w3resource.com/php-exercises/php-basic-exercise-56.php>)

57. Write a PHP program to find the maximum sum of a contiguous subsequence from a given sequence of numbers a1, a2, a3, ... an. A subsequence of one element is also a continuous subsequence.

You can assume that 1 = n = 5000 and -100000 = ai = 100000.

Input numbers are separated by a space.

Input 0 to exit.

Sample Input:6

-4

-2
5
3
8

Sample Output:

16

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-57.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-57.php)

58. There are two circles C1 with radius r1, central coordinate (x1, y1) and C2 with radius r2 and central coordinate (x2, y2)

Input numbers (real numbers) are separated by a space.

Write a PHP program to test the followings -

"C2 is in C1" if C2 is in C1

"C1 is in C2" if C1 is in C2

"Circumference of C1 and C2 intersect" if circumference of C1 and C2 intersect, and

"C1 and C2 do not overlap" if C1 and C2 do not overlap.

Sample Input:

2
0.0 0.0 6.0 0.0 0.0 5.0
0.0 0.0 3.0 5.1 0.0 3.0

Sample Output:

C2 is in C1.
Circumference of C1 and C2 intersect.

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-58.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-58.php)

59. Write a PHP program to that reads a date (from 2016/1/1 to 2016/12/31) and prints the day of the date. Jan. 1, 2016, is Friday. Note that 2016 is a leap year.

Two integers m and d separated by a single space in a line, m ,d represent the month and the day.

Sample Input:

9 15

Sample Output:

The day is: Thursday

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-59.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-59.php)

60. Write a PHP program to print mode values from a given a sequence of integers. The mode value is the element which occurs most frequently. If there are several mode values, print them in ascending order.

A sequence of integer's ai (1 = ai = 100). The number of integers is less than or equals to 100.

Sample Input:

6
7
4
6
9
8
6
4
10
8

4

5

Sample Output:

```
Mode values (in ascending order):
```

4

6

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-60.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-60.php)

61. Write a PHP program which reads a text (only alphabetical characters and spaces.) and prints two words. The first one is the word which is arise most frequently in the text. The second one is the word which has the maximum number of letters.

Note: A word is a sequence of letters which is separated by the spaces.

Input:

A text is given in a line with following condition:

- a. The number of letters in the text is less than or equal to 1000.
- b. The number of letters in a word is less than or equal to 32.
- c. There is only one word which is arise most frequently in given text.
- d. There is only one word which has the maximum number of letters in given text. **Sample**

Input: Thank you for your comment and your participation.

Sample Output:

```
your participation.
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-61.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-61.php)

62. Write a PHP program which reads the two adjoined sides and the diagonal of a parallelogram and check whether the parallelogram is a rectangle or a rhombus.

According to Wikipedia-

parallelograms: In Euclidean geometry, a parallelogram is a simple (non-self-intersecting) quadrilateral with two pairs of parallel sides. The opposite or facing sides of a parallelogram are of equal length and the opposite angles of a parallelogram are of equal measure.

rectangles: In Euclidean plane geometry, a rectangle is a quadrilateral with four right angles. It can also be defined as an equiangular quadrilateral, since equiangular means that all of its angles are equal ($360^\circ/4 = 90^\circ$). It can also be defined as a parallelogram containing a right angle.

rhombus: In plane Euclidean geometry, a rhombus (plural rhombi or rhombuses) is a simple (non-self-intersecting) quadrilateral whose four sides all have the same length. Another name is equilateral quadrilateral, since equilateral means that all of its sides are equal in length. The rhombus is often called a diamond, after the diamonds suit in playing cards which resembles the projection of an octahedral diamond, or a lozenge, though the former sometimes refers specifically to a rhombus with a 60° angle (see Polyiamond), and the latter sometimes refers specifically to a rhombus with a 45° angle.

Input: Two adjoined sides and the diagonal.

$1 = ai, bi, ci = 1000, ai + bi > ci$

Sample Input:

4,5,6

6,6,9

Sample Output:

```
This is rectangles.
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-62.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-62.php)

63. Write a PHP program to replace a string "Python" with "PHP" and "Python" with "PHP" in a given string.

Input: English letters (including single byte alphanumeric characters, blanks, symbols) are given

on one line. The length of the input character string is 1000 or less.

Sample Input:

PHP is popular than Python

Sample Output:

```
Python is popular than PHP.
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-63.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-63.php)

64. Write a PHP program to find the difference between the largest integer and the smallest integer which are created by 8 numbers from 0 to 9. The number that can be rearranged shall start with 0 as in 00135668.

Input: The difference between the largest integer and the smallest integer.

Sample Input:

```
1  
34567829
```

Sample Output:

```
Difference between the largest integer and the smallest integer:  
75308643
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-64.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-64.php)

65. Write a PHP program to compute the sum of first n given prime numbers.

Input: n (n = 10000). Input 0 to exit the program.

Sample Input:

```
25  
0
```

Sample Output:

```
Sum of first 25 prime numbers:1060
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-65.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-65.php)

66. Write a PHP program that accept an even number (n should be greater than or equal to 4 and less than or equal to 50000, Goldbach number) from the user and create a combinations that express the given number as a sum of two prime numbers. Print the number of combinations.

Goldbach number: A Goldbach number is a positive even integer that can be expressed as the sum of two odd primes.[4] Since four is the only even number greater than two that requires the even prime 2 in order to be written as the sum of two primes, another form of the statement of Goldbach's conjecture is that all even integers greater than 4 are Goldbach numbers.

The expression of a given even number as a sum of two primes is called a Goldbach partition of that number. The following are examples of Goldbach partitions for some even numbers:

6 = 3 + 3

8 = 3 + 5

10 = 3 + 7 = 5 + 5

12 = 7 + 5

...

100 = 3 + 97 = 11 + 89 = 17 + 83 = 29 + 71 = 41 + 59 = 47 + 53

Sample Input:

100

0

Sample Output:

```
Number of combinations: 6
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-66.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-66.php)

67. if you draw a straight line on a plane, the plane is divided into two regions. For example, if you pull two straight lines in parallel, you get three areas, and if you draw vertically one to the other you get 4 areas. Write a PHP program to create maximum number of regions obtained by drawing n given straight lines.

Input: (1 = n = 10,000)

Sample Input:

5

Sample Output:

Maximum number of regions: 16

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-67.php>)

68. There are four different points on a plane, P(xp,yp), Q(xq, yq), R(xr, yr) and S(xs, ys). Write a PHP program to test whether AB and CD are orthogonal or not.

xp,yp, xq, yq, xr, yr, xs and ys are -100 to 100 respectively and each value can be up to 5 digits after the decimal point It is given as a real number including the number of.

Sample Input:

5

Sample Output:

Maximum number of regions: 16

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-68.php>)

69. Write a PHP program to sum of all numerical values (positive integers) embedded in a sentence.

Sentences with positive integers are given over multiple lines. Each line is a character string containing one-byte alphanumeric characters, symbols, spaces, or an empty line. However the input is 80 characters or less per line and the sum is 10,000 or less.

Sample Input:

5 apple and 10 orange are rotten in the basket

Sample Output:

Maximum number of regions: 16

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-69.php>)

70. Record section of ABC company records the customer number and the trading date for each month. Write a PHP program to find the customer number that has traded for the second consecutive for the second consecutive month from last month and the number of transactions. The data of this month and the data of last month are separated by a blank line of one line and given.

Transaction format:

c1 , d1

c2 , d2

...

...

ci (1 = ci = 1,000) is an integer represents the customer number, di (1 = di = 31) is an integer represents the trading date.

Sample Input:

125,10

55,12

34,14

125,3

55,4

125,5

Sample Output:

Sum of the numeric values: 15

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-70.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-70.php)

71. There are 10 vertical and horizontal squares on a plane. Each square is painted blue and green. Blue represents the sea, and green represents the land. When two green squares are in contact with the top and bottom, or right and left, they are said to be ground. The area created by only one green square is called "island". For example, there are five islands in the figure below.

Write a PHP program to read the mass data and find the number of islands.

A single data set is represented by 10 rows of 10 numbers representing green squares as 1 and blue squares as zeros.

Sample Input:

1100000111

1000000111

0000000111

0010001000

0000011100

0000111110

0001111111

1000111110

1100011100

1110001000

Sample Output:

Number of islands:

5

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-71.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-71.php)

72. When character are consecutive in a string , it is possible to shorten the character string by replacing the character with a certain rule. For example, in the case of the character string YYYYY, if it is expressed as # 5 Y, it is compressed by one character.

Write a PHP program to restore the original string by entering the compressed string with this rule.

However, the # character does not appear in the restored character string.

Note: The original sentences are uppercase letters, lowercase letters, numbers, symbols, less than 100 letters, and consecutive letters are not more than 9 letters.

Input:

Multiple character strings are given. One string is given per line

Sample Output:

88888888 + 1 = 100000000

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-72.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-72.php)

73. A convex polygon is a simple polygon in which no line segment between two points on the boundary ever goes outside the polygon. Equivalently, it is a simple polygon whose interior is a convex set. In a convex polygon, all interior angles are less than or equal to 180 degrees, while in a strictly convex polygon all interior angles are strictly less than 180 degrees.

Write a PHP program that compute the area of the polygon . The vertices have the names vertex 1, vertex 2, vertex 3, ... vertex n according to the order of edge connections. However, n is 3 or more and 20 or less. You can also use the following formula to calculate the area S from the lengths a, b, and c of the triangle's three sides.

Input:

1.0, 0.0

0.0, 0.0

1.0, 1.0

2.0, 0.0

-1.0, 1.0

Sample Output:

Area of the polygon:

1.5

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-73.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-73.php)

74. Internet search engine giant, such as Google accepts web pages around the world and classify them, creating a huge database. The search engines also analyze the search keywords entered by the user and create inquiries for database search. In both cases, complicated processing is carried out in order to realize efficient retrieval, but basics are all cutting out words from sentences.

Write a PHP program to cut out words of 3 to 6 characters length from a given sentence not more than 1024 characters.

Input:

English sentences consisting of delimiters and alphanumeric characters are given on one line.

Sample Input:

The quick brown fox

Sample Output:

Original string: The quick brown fox

Words of 3 to 6 characters length: The quick brown fox

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-74.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-74.php)

75. Arrange integers (0 to 99) as narrow hilltop, as illustrated in Figure 1. Reading such data representing huge, when starting from the top and proceeding according to the next rule to the bottom. Write a PHP program that compute the maximum value of the sum of the passing integers.

Input:

A series of integers separated by commas are given in diamonds. No spaces are included in each line. The input example corresponds to Figure 1. The number of lines of data is less than 100 lines.

Sample Input:

8

4, 9

9, 2, 1

3, 8, 5, 5

5, 6, 3, 7, 6

3, 8, 5, 5

9, 2, 1

4, 9

8

Sample Output:

64

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-75.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-75.php)

76. Your task is to develop a small part of spreadsheet software.

Write a PHP program which adds up columns and rows of given table as shown in the following figure:

Input:

n (the size of row and column of the given table)

1st row of the table

2nd row of the table

:

:

n th row of the table

The input ends with a line consisting of a single 0.

Sample Input:

```
4
25 69 51 26
68 35 29 54
54 57 45 63
61 68 47 59
0
```

Sample Output:

The table with sum of rows and columns:

25	69	51	26	171
68	35	29	54	186
54	57	45	63	219
61	68	47	59	235
208	229	172	202	811

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-76.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-76.php)

77. Write a PHP program which reads a list of pairs of a word and a page number, and prints the word and a list of the corresponding page numbers.

The number of pairs of a word and a page number is less than or equal to 1000. A word never appear in a page more than once. The words should be printed in alphabetical order and the page numbers should be printed in ascending order.

Sample Input:

```
apple 5
banana 6
```

Sample Output:

The word and a list of the corresponding page numbers:

apple
5
banana
6

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-77.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-77.php)

78. Write a PHP program to create a function that returns true for all elements of an array, false otherwise.

Sample Output:

1
0
0

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-78.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-78.php)

79. Write a PHP program to deep flatten an given array.

Sample Output:

```
(  
    [0] => 1  
    [1] => 2  
    [2] => 3  
    [3] => 4  
    [4] => 5  
    [5] => 6  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-79.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-79.php)

80. Write a PHP program to create a new array with n elements removed from the left.

```
Array  
(  
    [0] => 2  
    [1] => 3  
)  
Array  
(  
    [0] => 3  
    [1] => 4  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-80.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-80.php)

81. Write a PHP program to get the last element for which the given function returns a truth value.

Sample Output:

```
3  
4
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-81.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-81.php)

82. Write a PHP program to get the index of the last element for which the given function returns a truth value.

Sample Output:

```
2  
3
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-82.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-82.php)

83. Write a PHP program to group the elements of an array based on the given function.

Sample Output:

```
Array  
(  
    [3] => Array  
        (  
            [0] => one  
            [1] => two  
        )  
  
    [5] => Array  
        (  
            [0] => three  
        )  
  
    [4] => Array  
        (  
            [0] => four  
        )  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-83.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-83.php)

84. Write a PHP program to check a flat list for duplicate values. Returns true if duplicate values exists and false if values are all unique.

Sample Output:

```
1  
0
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-84.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-84.php)

85. Write a PHP program to get the head of a given list.

Sample Output:

```
1  
2
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-85.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-85.php)

86. Write a PHP program to get the last element of a given list.

Sample Output:

```
3  
2
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-86.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-86.php)

87. Write a PHP program to retrieve all of the values for a given key.

Sample Output:

```
Array  
(  
    [0] => Computer  
    [1] => Laptop  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-87.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-87.php)

88. Write a PHP program to mutate the original array to filter out the values specified.

Sample Output:

```
Array  
(  
    [0] => b  
    [1] => b  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-88.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-88.php)

89. Write a PHP program to filter the collection using the given callback.

Sample Output:

```
Array  
(  
    [0] => Red  
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-89.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-89.php)

90. Write a PHP program to return all elements in a given array except for the first one.

Sample Output:

```
Array
(
    [0] => 2
    [1] => 3
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-90.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-90.php)

91. Write a PHP program to get an array with n elements removed from the beginning of a given array.

Sample Output:

```
Array
(
    [0] => 1
)

Array
(
    [0] => 1
    [1] => 2
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-91.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-91.php)

92. Write a PHP program to filter out the elements of a given array, that have one of the specified values.

Sample Output:

```
Array
(
    [0] => 3
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-92.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-92.php)

93. Write a PHP program to sort a collection of given arrays or objects by key.

Sample Output:

```
Array
(
    [0] => Array
        (
            [id] => 3
            [name] => Black
        )

    [1] => Array
        (
            [id] => 2
            [name] => Red
        )

    [2] => Array
        (
            [id] => 1
            [name] => Green
        )
)
```

[Click me to see the solution \(https://www.w3resource.com/php-exercises/php-basic-exercise-93.php\)](https://www.w3resource.com/php-exercises/php-basic-exercise-93.php)

94. Write a PHP program to check if two numbers are approximately equal to each other.

Note: Use `abs()` to compare the absolute difference of the two values to epsilon. Omit the third parameter, epsilon, to use a default value of 0.001.

Sample Output:

```
1  
0
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-94.php>)

95. Write a PHP program to check if a given string starts with a given substring.

Sample Output:

```
1
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-95.php>)

96. Write a PHP program to count number of vowels in a given string.

Note: Use a regular expression to count the number of vowels (A, E, I, O, U) in a string.

Sample Output:

```
4
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-96.php>)

97. Write a PHP program to decapitalize the first letter of the string and then adds it with rest of the string.

Sample Output:

```
python
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-97.php>)

98. Write a PHP program to create a new function that composes multiple functions into a single callable.

Sample Output:

```
16  
20
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-98.php>)

99. Write a PHP program to memoize a given function results in memory.

Note: In computing, memoization or memoisation is an optimization technique used primarily to speed up computer programs by storing the results of expensive function calls and returning the cached result when the same inputs occur again.

Sample Output:

```
array(2) {  
    ["result"]=>  
    int(15)  
    ["cached"]=>  
    bool(false)  
}  
array(2) {  
    ["result"]=>  
    int(16)  
    ["cached"]=>  
    bool(false)  
}  
array(2) {  
    ["result"]=>  
    int(15)  
    ["cached"]=>  
    bool(true)  
}
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-99.php>)

100. Write a PHP program to curry a function to take arguments in multiple calls.

Sample Output:

```
int(25)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-100.php>)

101. Write a PHP program to call a given function only once.

Sample Output:

```
int(15)  
NULL
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-101.php>)

102. Write a PHP program to capture a variable number of arguments to a given function.

Sample Output:

```
int(3)  
int(10)
```

Click me to see the solution (<https://www.w3resource.com/php-exercises/php-basic-exercise-102.php>)

PHP Code Editor:

The screenshot shows a browser window for paiza.io. At the top left is the paiza.io logo and URL. Below it is a large, empty code editor area with a plus sign (+) in the top-left corner. In the bottom right corner of the editor area is a rounded rectangle containing the text "Run (Ctrl-Enter)". Above the editor area is a horizontal bar with "Output (https://paiza.io/)" on the left, "Input (https://paiza.io/)" in the middle, and "(0.04 sec)" on the right. At the very bottom of the window is a footer bar featuring the PaizaCloud logo and the text "Start web-app dev in 5 seconds!".

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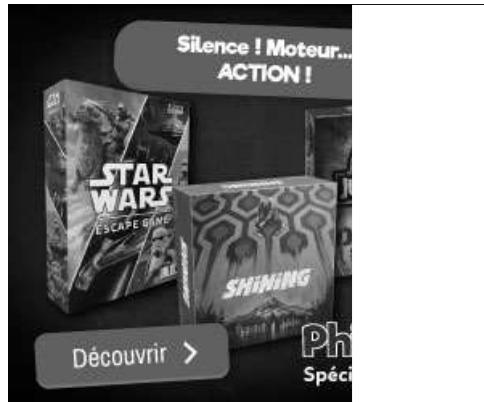
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