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Swap Number?

```
function abc($a,$b){  
    echo "Value of a: $a<br>";  
    echo "Value of b: $b<br>";  
    $temp=$a;  
    $a=$b;  
    $b=$temp;  
    echo "Value of a: $a<br>";  
    echo "Value of b: $b<br>";  
}  
$n1 = 4;  
$n2 = 2;  
abc ($n1,$n2);
```

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Swap Number Without Third Variable?

```
$a = 5;  
$b = 9;
```

```
$a = $a + $b; // 5 + 6 = 11
$b = $a - $b; // 11 - 6 = 5
$a = $a - $b; // 11 - 5 = 6

echo $a . ',' . $b;
```

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Reverse String?

```
$s = 'mohit saxena';
$l = strlen($s);
for($i=$l-1; $i>=0; $i--){
    echo $s[$i];
}
```

Output:- anexas tihom

2 Option

```
$str = 'Mohit Saxena';
$length = strlen($str);

$rev = '';
for($i = $length-1; $i >= 0; $i--) {
    $rev .= $str[$i];
}
echo $rev;
```

Output:- anexaS tihoM

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Revers number?

```
# Type 1st:-
$num = 2039;
$revnum = 0;
while ($num != 0){
    $revnum = $revnum * 10 + $num % 10;
    $num = (int)($num / 10);
}
echo "Reverse number: $revnum";
```

Type 2nd:-

```
$num = 23456;
$revnum = 0;
```

```

while ($num > 1){
    $rem = $num % 10;
    $revnum = ($revnum * 10) + $rem;
    $num = ($num / 10);
}
echo "Reverse number of 23456 is: $revnum";

```

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Check the Prime Number or not?

```

function IsPrime($n){
    for($x=2; $x<$n; $x++){
        if($n %$x ==0){
            return 0;
        }
        return 1;
    }
    $a = IsPrime(7);
    if ($a==0)
        echo 'This is not a Prime Number.....'. "\n";
    else
        echo 'This is a Prime Number..'. "\n";
}
Output :- This is a Prime Number..

```

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Print the prime number?

```

function primeno($n){
    for($i=1;$i<=$n;$i++){ //numbers to be checked as prime
        $counter = 0;
        for($j=1;$j<=$i;$j++){ //all divisible factors
            if($i % $j==0){
                $counter++;
            }
        }
        if($counter==2){
            echo $i." is Prime <br/>";
        }
    }
}

primeno(100);

```

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Fibonacci Number print?

Type 1st:-

```
$count = 0 ;
$f1 = 0;
$f2 = 1;
echo $f1." , ";
echo $f2." , ";
while ($count < 20 )
{
    $f3 = $f2 + $f1 ;
    echo $f3." , ";
    $f1 = $f2 ;
    $f2 = $f3 ;
    $count = $count + 1;
}
```

Output :-

0 , 1 , 1 , 2 , 3 , 5 , 8 , 13 , 21 , 34 , 55 , 89 , 144 , 233 , 377

Type 2nd:-

```
define('NUM',5);
$a = 0;
$b = 1;
echo "$a $b "; // 0 1
for($i=1; $i<= NUM-2; $a=$b, $b=$c, $i++){
    echo $c = $a+$b;
    echo " ";
}
```

Output :- 0, 1, 1, 2

Type 3rd:-

```
$first = 0;
$second = 1;
echo "Fibonacci Series \n";
echo $first.' '.$second.' ';
for($i = 2; $i < 12; $i++){
    $third = $first + $second;
    echo $third.' ';
    $first = $second;
    $second = $third;
}
```

Output :- Fibonacci Series 0 1 1 2 3 5 8 13 21 34 55 89

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Print The Matrix?

```
for($i=0;$i<3;$i++){
    for($j=0;$j<3;$j++){
        {
            if($i==$j)
            {
                echo 1;
            }
            else
            {
                echo 0;
            }
        }
        echo '<br/>';
    }
}
```

Output:-

```
1 0 0
0 1 0
0 0 1
```

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Find The Number Even Or Odd?

```
function evenOrOdd($n){
    if($n%2==0)
    {
        echo 'even number';
    }
    else
    {
        echo 'odd number';
    }
}
$a = '5';
evenOrOdd($a);
Output:- odd number
```

Program to find Palindrome Number?

```
<?php
function check_palindrome($n){
    $inpt = $n;
    $sum = 0;
    while(floor($inpt)) {
        $newnum = $inpt % 10;
        $sum = $sum * 10 + $newnum;
```

```

        $inpt = $inpt/10;
    }
    return $sum;
}

$input = 12321;
$num = check_palindrome($input);

if($input==$num){
    echo "Palindrome number";
}else{
    echo "Not a Palindrome";
}

```

Program to find Palindrome string?

```

$str = 'level';
$strLen = strlen($str)-1;
$revStr = '';
for($i=$strLen; $i>=0; $i--){
    $revStr.=$str[$i];
}
if($revStr == $str)
    echo 'Palindrome';
else
    echo "Not Palindrome";

```

Print the Odd Number

```

function oddNumber($s,$e)
{
    for($i=$s; $i<=$e; $i+=2){
        echo '<pre>';
        echo $i;
    }
}
oddNumber(1,16);
Output:- 1 3 5 7 9 11 13 15

```

Array Questions

Remove Duplicate Elements or Values from Array

```

$givenArray = array(2,5,2,10,4,5,8,16);
$uniqueArray = array();

```

```
foreach($givenArray as $val) {
    $uniqueArray[] = $val;
}
print_r($uniqueArray);
```

Output:- Array ([0] => 2 [1] => 5 [2] => 2 [3] => 10 [4] => 4 [5] => 5 [6] => 8 [7] => 16)

Type 2nd

```
$givenArray = array(2,5,2,10,4,5,8,16);
$uniqueArray = array();
```

```
foreach($givenArray as $val) { //Loop1
    foreach($uniqueArray as $uniqueValue) { //Loop2
        if($val == $uniqueValue) {
            continue 2; // Referring Outer loop (Loop 1)
        }
    }
    $uniqueArray[] = $val;
}
print_r($uniqueArray);
```

Output:- Array ([0] => 2 [1] => 5 [2] => 10 [3] => 4 [4] => 8 [5] => 16)

Type 3rd

```
$inputArray = array(1, 4, 2, 1, 6, 4, 9, 7, 2, 9);
$outputArray = array();
```

```
foreach ($inputArray as $val){
    if(!in_array($val,$outputArray)){
        $outputArray[] = $val;
    }
}
print_r($outputArray);
```

Output:- Array ([0] => 1 [1] => 4 [2] => 2 [3] => 6 [4] => 9 [5] => 7)

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Find duplicate values in array

```
$givenArray = array(16, 2,5,2,10,4,5,8,16);
$duplicateValues = array();
$uniqueValues = array();
```

```
foreach($givenArray as $val) {
    if (!isset($uniqueValues[$val])) {
        $uniqueValues[$val] = $val;
    }
}
```

```

    } else {
        $duplicateValues[] = $val;
    }

}
print_r($duplicateValues);

Output:- Array ( [0] => 2 [1] => 5 [2] => 16 )

```

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Sort an Array / Using Bubble sort

```

function bubbleSort(array $arr)
{
    $n = count($arr);
    for ($i = 1; $i < $n; $i++)
    {
        for ($j = $n-1; $j >= $i; $j--)
        {
            if($arr[$j-1] > $arr[$j])
            {
                $tmp = $arr[$j-1];
                $arr[$j-1] = $arr[$j];
                $arr[$j] = $tmp;
            }
        }
    }
    return $arr;
}

echo '<pre>';
$arr = array(255,1,22,3,45,5);
$result = bubbleSort($arr);
print_r($result);

Output:- 1 3 5 22 45 255

```

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Minimum value in array:-

```

# using For each loop
$a = array(10, 44, 5, 6, 68, 9);
$blank = $a[0];
foreach($a as $v){
    if($blank > $v)
        $blank = $v;
}
echo $blank;

```



```

-----

# 2nd Option using For loop
$a = array(15,10,20,100,25,30);
$max = max($a);
$l = count($a);
for ($i=0; $i<$l; $i++){
    $chek = $a[$i];
    if($chek<$max){
        $z = $chek;
        $max = $z;
    }
}
echo $z;

```

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Higest value in array(Array max value):-

```

    $a = array(1, 44, 5, 6, 68, 9);
    $blank = 0;
    foreach($a as $v)
    {
        if($blank < $v)
            $blank = $v;
    }
    echo $blank;
-----
# Type 2
$a =array(2,44,5,6,68,9);
$l = count($a);
$res=0;
for($i=0;$i<$l;$i++){
    if($res<$a[$i]){
        $res=$a[$i];
    }
}
echo $res;

```

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Find the largest first, second, third, fourth and fifth largest number from the array

```

$array1 = array(2,4,2,3,3,6,5,9,3,15,4,5,6,9);
$first_highest = 0;
$second_highest = 0;
$third_highest = 0;

foreach($array1 as $key=>$val) {

```

```

        if($val > $first_highest) {
            $second_highest = $first_highest;
            $first_highest = $val;
        }else if($val > $second_highest && $val != $first_highest) {
            $second_highest = $val;
        }else if($val > $third_highest && $val != $first_highest && $val !=
$second_highest) {
            $third_highest = $val;
        }
    }

    print_r($first_highest);
    echo "<br />";
    print_r($second_highest);
    echo "<br />";
    print_r($third_highest);

Output:-
15
9
6
////////////////////////////////////
$array1 = array(2,4,2,3,3,6,5,9,11,3,15,4,5,6,9);
$maxV = $minV = $thirdLN = $fourthLN = $fifthLN = 0;
foreach($array1 as $key=>$val) {
    if($val > $maxV) {
        $fifthLN = $fourthLN;
        $fourthLN = $thirdLN;
        $thirdLN = $minV;
        $minV = $maxV;
        $maxV = $val;

    } else if($val > $minV && $val != $maxV) {
        $minV = $val;
    } else if($val > $thirdLN && $val != $maxV && $val != $minV) {
        $thirdLN = $val;
    } else if($val > $fourthLN && $val != $maxV && $val != $minV && $val !=
$thirdLN) {
        $fourthLN = $val;
    } else if($val > $fifthLN && $val != $maxV && $val != $minV && $val !=
$thirdLN && $val != $fourthLN) {
        $fifthLN = $val;
    }
}

echo "<pre>";
print_r($fifthLN);
echo "<br />";
print_r($fourthLN);
echo "<br />";
print_r($thirdLN);
echo "<br />";
print_r($minV);

```

```
echo "<br />";
print_r($maxV);
```

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Print Even number from the given array

```
$array1 = [2,5,4,2,6,9,4,2,5,8];
$blank_array = array();
foreach($array1 as $key => $val) {
    if(($val % 2) == 0) {
        $blank_array[] = $val;
    }
}

echo "<pre>";
print_r($blank_array);
```

Print Even number from the given array And remove the Duplicate array

```
$evenNo = [];
foreach($blank_array as $key => $val) {
    if($val%2 == 0) {
        $evenNo[$val] = $val;
    }
}
print_r($evenNo);
?>
```

Add space after 2 character:- //my-na-me-is-mo-hi-ts

```
<?php
$str = "my name is mohit saxena";
$len = strlen($str);
for($i=0; $i<$len; $i++)
{
    if($i%2==0 && $i!=0)
    {
        echo "-";
    }
    echo $str[$i];
}
?>
```

String Pattern

```
<?php
for($i=0;$i<=5;$i++){
for($j=1;$j<=$i;$j++){
echo $i;
}
echo '<br>';
}
?>
```

Output: -

```
1
22
333
4444
55555
```

```
<?php
for($i=0;$i<=5;$i++){
for($j=1;$j<=$i;$j++){
echo "1";
}
echo '<br>';
}
?>
```

Output: -

```
1
11
111
1111
11111
```

```
<?php
for($i=0;$i<=5;$i++){
for($j=1;$j<=$i;$j++){
echo $j;
}
echo '<br>';
}
?>
```

Output: -

```
1
12
123
1234
12345
```

```

*   *   *   *   *
*   *   *   *
*   *   *
*   *
*
```

```

*
*  *
*  *  *
*  *  *  *
*  *  *  *  *
*  *  *  *  *  *

```

- * *
- * *
- * *
- * *
- * *

```
<?php
for ($row = 1; $row <= 5; $row++)
{
    for ($col = 1; $col <= 5; $col++)
    {
        echo '* ';
    }
    echo "</br>";
}
?>
```

Output:-

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

```
<?php
$num = 23;
for( $j = 2; $j <= $num; $j++ )
{
    for( $k = 2; $k < $j; $k++ )
    {
        if( $j % $k == 0 )
        {
            break;
        }
    }
    if( $j == $k )
    echo $j;
}
?>
```

Output:- 2 3 5 7 11 13 17 19 23

f

Q6 – Print odd number from the given array ? Answer –

```
$array1 = [2,3,6,9,1,7,4,3,5]; $array2 = array();
foreach($array1 as $key => $val) { if(($val % 2) == 1) { $array2[] = $val; }
```

```
}
```

```
echo "
```

```
";
print_r($array2);
```

```
$arr = [2,5,4,2,6,9,4,2,5,8];
$oddNo = [];
foreach($arr as $key => $val) {
    if($val%2 == 1) {
        $oddNo[$val] = $val;
    }
}
print_r($oddNo);
```

Greatest Number

```
<?php
function abc($a,$b)
{
    if($a>$b)
        echo $a;
    }
    else
    {
        echo $b;
    }
}
$n1 = 21;
$n2 = 20;
abc ($n1,$n2);
?>
Output:- 21
```

Array mai 1 position & 4 position ki value ko add karna

```
<?php
function add($x,$y)
{
    $u = array(5,3,4,6,9);
    $x1 = $u[$x];
    $y1 = $u[$y];
    $sum = $x1 + $y1;
    echo $sum;
}
add(1,4);
```

```
?>
```

Output:- 12

C

```
```php
<?php
$count = 'a'; // a
for($i=0;$i<5;$i++) // b
{ echo $count; // c
 echo '
'; // d
 $count++;
}
?>
```
```

```
<?php
for ($i=2; $i<=100; $i+=2)    //Find all even numbers between 1 to 100
{
    echo $i." ";
}
?>
```

```
<?php
$array = array(8,7,5,14,4,5,9,11,9,10);    // array ki even
location wale number add jo jae
$c = count($array);
$x = 0;
for ($i=0; $i<$c; $i++)
{
    echo '<pre>';
    echo $i;
    if ($i % 2 == 0)
    {
        $sum = $array[$i] + $x;
        $x = $sum;
        echo $x;
    }
    else
```



```

    {
        echo "odd\n";
    }
}
?>

```

```

<?php
function add($n1)
{
    //$a = count($n1);           // array ke sare no add karne ke liye
    $b = 0;
    for($i=0; $i<3 ;$i++)       // array ke 1 to 3 number add ho jae
    {
        $x = $n1[$i];
        $y = $b + $x;
        $b = $y;

        echo '<pre>';
        echo $b;
    }
}
$x = array(5,5,4,6,1);
add($x);
?>

```

string mai 3 ka baad dot(...) ho jae....

```

<?php
function abc($a)
{ $l = strlen($a);
  $str='';
  for($i=0; $i<$l; $i++)
  {
      $m = $a[$i];
      $str = $str.$m;
      if(strlen($str)>=4)
      {
          echo $str.'-----';
          break;
      }
  }
}

```

```

$x = 'abcdefgh';

```

```

abc ($x);

```

```

?>

```

Output:-

```

abc-----

```

```
<?php
for ($i=1; $i<=5; $i++){
    echo "The Number is: ".$i."<br/>";
}
?>
```

Output:-

```
The Number is: 1<br>
The Number is: 2<br>
The Number is: 3<br>
The Number is: 4<br>
The Number is: 5<br>
```

<https://phpgurukul.com/php-programming-logical-interview-questions-answers/>
For Array logic questions link

<https://www.mostlikers.com/p/php-logical-interview-questions-and.html>

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<https://tutorialdeep.com/php/print-pyramid-star-patterns-php/>

```
print odd number but remove the duplicate odd number
$arr = [2,5,4,2,6,9,4,2,5,8];
$oddNo = [];
foreach($arr as $key => $val) {
    if($val%2 == 1) {
        $oddNo[$val] = $val;
    }
}
```

```
print_r($oddNo);
```

Q7:- Check given number is prime or not.

Ans:- Prime number:-A number that is divisible only by itself and 1 is

called prime number (e.g. 2, 3, 5, 7, 11).

```
$num = 11;
```

```
$count=0;
```

```
for ($i = 1; $i <= $num; $i++) {
    if(($num % $i) == 0) {
        $count ++;
    }
}
```

```
if($count == 2) {
    echo $num. " Number is prime";
} else {
    echo $num. " Number is not prime";
}
```

Q8:- Print 1 to 100 prime numbers

Ans:-

```
function primeno($n){
```

```
    for($i=1;$i<=$n;$i++){ //numbers to be checked as prime
```

```
        $counter = 0;
```

```
        for($j = 1; $j <= $i; $j++) { //all divisible factors
```

```
            if($i % $j==0) {
```

```
                $counter++;
```

```
            }
```

```
        }
```

```
        //prime requires 2 rules ( divisible by 1 and divisible by itself)
```

```
        if($counter==2){
```

```
            print $i." is Prime <br/>";
```

```
        }
```

```
    }
```

```
}
```

```
primeno(100); //find prime numbers from 1-100
```

Q9:- Print 1 to 100 alternate prime numbers.

Ans:-

```
function primeno($n){
$alternate = 0;
for($i=1;$i<=$n;$i++){ //numbers to be checked as prime
```

```
    $counter = 0;
    for($j=1;$j<=$i;$j++){ //all divisible factors

        if($i % $j==0){

            $counter++;

        }

    }

    //prime requires 2 rules ( divisible by 1 and divisible by itself)
    if($counter==2){
    if($alternate == 1) {
        $alternate = 0;
    } else {
        print $i." is Prime <br/>";
        $alternate = 1;
    }

    }

}
```

```
}
```

```
primeno(100); //find prime numbers from 1-100
```

Q:-Print prime no only given number by the user like if suppose user enter 5 then it should print 5 prime no.

Ans:-

```
$array[$j]) {
```

```

        $temp = $array[$i];
        $array[$i] = $array[$j];
        $array[$j] = $temp;
    }
}
}
echo '

```

```

';
    echo "Ascending Sorted Array is: ";
    print_r($array);
or
$arr = [3,5,10,66,22,31,5,7,34,1,9];
for($i = 0; $i < count($arr); $i++) {
    for($j=0; $j< count($arr)-1; $j++) {
        if($arr[$j] > $arr[$j+1]) {
            $temp = $arr[$j];
            $arr[$j] = $arr[$j+1];
            $arr[$j+1] = $temp;
        }
    }
}
print_r($arr);die;

```

7. show only duplicate values from an array without built-in function PHP. ex array \$arr = array(8,9,10,3,4,8,7,9,11,3);

Ans:-

```

$val)
{
    unset($arr[$key]);
    if (in_array($val,$arr))
    {
        echo $val . ",";
    }
}

```

Remove Duplicate records from an array.

```

```php
$array1 = array(2,3,4,2,3,4,5,4,6,3,7,4,7,2,6,4);
$array2 = array();
foreach($array1 as $key=>$val) {
 $array2[$val] = $val;
}

print_r($array2);
```

```

8. Write a Function that combines two lists by alternately taking element. For example Given two lists [a, b, c] and [1, 2, 3] the function should return [a, 1, b, 2, c, 3]

Ans:-

```

'; print_r($new_array);
?>

```

Q:- Sum numeric value from array if array has string and numeric value.

Ans:-

```
$a = ['w',3,'tk','nm', 5,8,'4','9klp','lk'];  
$sum = 0;  
foreach($a as $key => $val) {
```

```
    if(is_numeric($val)) {  
        $sum = $sum+ $val;  
    }  
}  
echo $sum;
```

Q:- Write a program to concatenate two strings character by character. e.g
: JOHN + SMITH = JSOMHINTH

Ans

```
$str = 'JOHN';  
$str2 = 'SMITH';
```

```
$arr = str_split($str);  
$arr2 = str_split($str2);
```

```
// Find the longest string  
$max = max(array(strlen($str), strlen($str2)));  
or  
$max = max(count($arr1), count($arr2));
```

```
$result = '';
```

```
for($i = 0; $i < $max; $i++){  
    // Check if array key exists. If so, add it to result  
    if (array_key_exists($i, $arr)){  
        $result .= $arr[$i];  
    }  
}
```

```
    if (array_key_exists($i, $arr2)){  
        $result .= $arr2[$i];  
    }  
}
```

```
}

echo $result; //JSOMHINTH

Q:- count occurence of character in a string
exp:-aabbccca
output:-a3,b2,c3

$str = "cdcdcdcdeeeefe";

$arr = str_split($str);
$result = array_count_values($arr);
//print_r($result);die;

$order = '';
foreach($result as $key=>$value) {
    $order .= $key.$value;
}

print_r($order);die;

OR Method 2
$str = 'aabbccca';
$arr = str_split($str);
$newArr = [];
foreach($arr as $key=> $val) {
    $newArr[$val][] = $val;
}
$string = '';
foreach($newArr as $k => $v) {
    $string .= $k.count($v);
}

print_r($string);

Factorial programme usign recursive function
```

```
function fact ($n)

{

if($n <= 1)

{

return 1;

}

else

{

return $n * fact($n - 1);

}

}

echo "Factorial of 6 is " .fact(6);
```

```
Q:-$a = "PHP";
$b = $a + 1;
echo $b;
```

Q:-

```
1
  1 2 1
 1 2 3 2 1
1 2 3 4 3 2 1
```

Ans:-

```
=1; $m--){
    echo $m . " ";
}

echo "\n";
}
```

Q:-Given a number and array find all possible combinations that sum of the given numbers.


```

Ans:-
$arr = [1,2,1,1,1];
$target = 3;
for($i=0; $i < count($arr); $i++) {
    $sum = 0;
    for($j = $i; $j < count($arr); $j++) {
        $sum += $arr[$j];
        if($sum === $target){
            for($k = $i; $k <= 1 2 100 $j; $k++) { echo $arr[$k]. " "; } "\n"; q7:-
            check given number is prime or not. ans:- number:-a that divisible only by
            itself and called (e.g. 2, 3, 5, 7, 11). $num="11;" $count="0;" for
            ($i="1;" $i <="$num;" $i++) if(($num % $i)==" 0) ++; if($count==" 2)
            $num. prime"; else not q8:- print to numbers function primeno($n){
            for($i="1;$i<=$n;$i++){ " be checked as $counter="0;" for($j="1;" $j $j++)
            all factors if($i $counter++; requires rules ( itself) if($counter=="2){ "
            $i."
            ";
                }
            }
        }
    }

    primeno(100); //find prime numbers from 1-100

```

Q9:- Print 1 to 100 alternate prime numbers.

```

Ans:-
function primeno($n){
    $alternate = 0;
    for($i=1;$i<=$n;$i++){ 1 2 numbers to be checked as prime $counter="0;"
    for($j="1;$j<=$i;$j++){ " all divisible factors if($i % $j=="0){ "
    $counter++; } requires rules ( by and itself) if($counter=="2){ "
    if($alternate==" 1) { $alternate="0;" else print $i." is
    ";
        $alternate = 1;
    }

    }
}

primeno(100); //find prime numbers from 1-100

```

Q:- What is the output below.

```

$search = "Hello";

$string = "Hello welcome to in Chetu India";

if(strpos($search, $string)) {
    echo "found";
}else {
    echo "not found";
}

```

Ans:- not found because "Hello" is the zero position and strpos return position of a string.

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```PHP

Q2:- Find largest and second largest number from the array

Ans:-

```
$array1 = array(2,4,2,3,3,6,5,9,3,15,4,5,6,9);
```

```
$maxV = $minV = 0;
```

```
foreach($array1 as $key=>$val) {
```

```
 if($val > $maxV) {
```

```
 $minV = $maxV;
```

```
 $maxV = $val;
```

```
 } else if($val > $minV && $val != $maxV) {
```

```
 $minV = $val;
```

```
 }
```

```
}
```

```
echo "
```

```
 ";
```

```
 print_r($minV);
```

```
 echo "
```

```
 ";
```

```
 print_r($maxV);
```