**Topshiriq-2**

**BOOLEAN**

26)

<?php

$x = 3;

$y = -4;

if ($x > 0 && $y > 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining birinchi choragida yotadi";

} elseif ($x < 0 && $y > 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining ikkinchi choragida yotadi";

} elseif ($x < 0 && $y < 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining uchinchi choragida yotadi";

} elseif ($x > 0 && $y < 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining to'rtinchi choragida yotadi";

} elseif ($x == 0 && $y > 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining x o'qi ustida yotadi";

} elseif ($x == 0 && $y < 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining x o'qi ostida yotadi";

} elseif ($x > 0 && $y == 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining y o'qi o'ng tarafida yotadi";

} elseif ($x < 0 && $y == 0) {

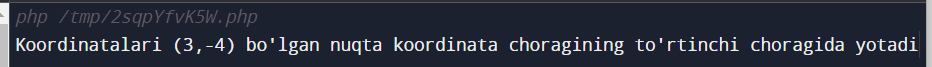
echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining y o'qi chap tarafida yotadi";

} else {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining markazi yotadi";

}

?>



27)

<?php

$x = -3;

$y = 4;

if ($x < 0 && $y > 0) {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining ikkinchisida yotadi";

} elseif ($x < 0 && $y < 0) {

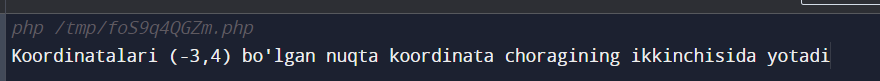
echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining uchunchisida yotadi";

} else {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining boshqa choragida yotadi";

}

?>



28)

<?php

$x = 3;

$y = 4;

if (($x > 0 && $y > 0) || ($x < 0 && $y < 0)) {

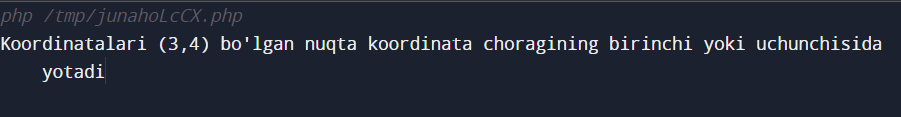
echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining birinchi yoki uchunchisida yotadi";

} else {

echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining boshqa choragida yotadi";

}

?>



29)

<?php

$x = 1;

$y = 4;

$x1 = 2;

$y1 = 6;

$x2 = 4;

$y2 = 3;

$side1 = sqrt(pow($x1 - $x, 2) + pow($y1 - $y, 2));

$side2 = sqrt(pow($x2 - $x1, 2) + pow($y2 - $y1, 2));

$side3 = sqrt(pow($x - $x2, 2) + pow($y - $y2, 2));

if (($x1 - $x) \* ($y2 - $y1) == ($x2 - $x1) \* ($y1 - $y)) {

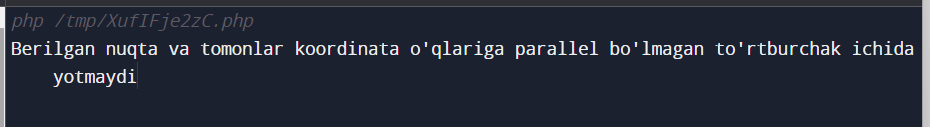
echo "Koordinatalari ($x,$y) bo'lgan nuqta, chap yuqori cho'qqisi ($x1,$y1) koordinatalarga ega bo'lgan va o'ng pastikisi ($x2,$y2) bo'lgan, tomonlari esa koordinata o'qlariga parallel bo'lgan to'rtburchak ichida yotadi";

} else {

echo "Berilgan nuqta va tomonlar koordinata o'qlariga parallel bo'lmagan to'rtburchak ichida yotmaydi";

}

?>



30)

<?php

$a = 3;

$b = 4;

$c = 5;

$tomonlar = [$a, $b, $c];

sort($tomonlar);

$minSide = $tomonlar[0];

$midSide = $tomonlar[1];

$maxSide = $tomonlar[2];

if ($minSide == $midSide && $midSide == $maxSide) {

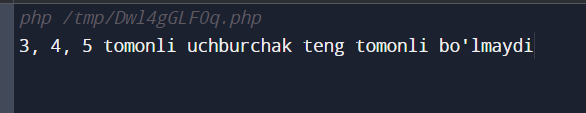
echo "$a, $b, $c tomonli uchburchak teng tomonli bo'ladi";

} else {

echo "$a, $b, $c tomonli uchburchak teng tomonli bo'lmaydi";

}

?>



31)

<?php

$a = 3;

$b = 4;

$c = 5;

$tomonlar = [$a, $b, $c];

sort($tomonlar);

$minSide = $tomonlar[0];

$midSide = $tomonlar[1];

$maxSide = $tomonlar[2];

if ($minSide\*\*2 + $midSide\*\*2 === $maxSide\*\*2) {

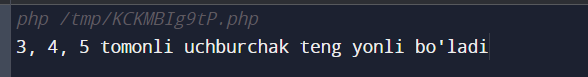
echo "$a, $b, $c tomonli uchburchak teng yonli bo'ladi";

} else {

echo "$a, $b, $c tomonli uchburchak teng yonli bo'lmaydi";

}

?>



32)

<?php

$a = 3;

$b = 4;

$c = 5;

$tomonlar = [$a, $b, $c];

sort($tomonlar);

$minSide = $tomonlar[0];

$midSide = $tomonlar[1];

$maxSide = $tomonlar[2];

$cosineC = ($a\*\*2 + $b\*\*2 - $c\*\*2) / (2 \* $a \* $b);

if ($cosineC == 0) {

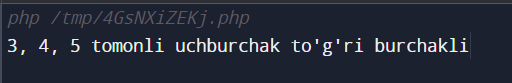
echo "$a, $b, $c tomonli uchburchak to'g'ri burchakli";

} else {

echo "$a, $b, $c tomonli uchburchak to'g'ri burchakli emas";

}

?>



33)

<?php

$a = 3;

$b = 4;

$c = 5;

if ($a + $b > $c && $a + $c > $b && $b + $c > $a) {

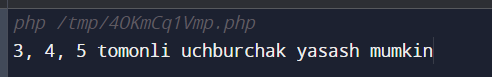
echo "$a, $b, $c tomonli uchburchak yasash mumkin";

} else {

echo "$a, $b, $c tomonli uchburchak yasash mumkin emas";

}

?>



34)

<?php

$x = 4;

$y = 5;

if (($x + $y) % 2 == 0) {

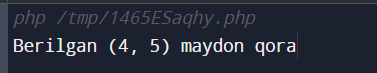
echo "Berilgan ($x, $y) maydon oq";

} else {

echo "Berilgan ($x, $y) maydon qora";

}

?>



35)

<?php

$x1 = 1;

$y1 = 1;

$x2 = 3;

$y2 = 3;

if (abs($x1 - $x2) == abs($y1 - $y2) || $x1 == $x2 || $y1 == $y2) {

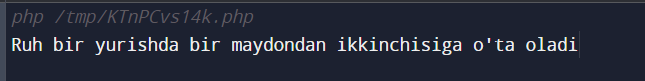
echo "Ruh bir yurishda bir maydondan ikkinchisiga o'ta oladi";

} else {

echo "Ruh bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";

}

?>



36)

<?php

$x1 = 4;

$y1 = 4;

$x2 = 6;

$y2 = 6;

if (abs($x1 - $x2) <= 1 && abs($y1 - $y2) <= 1) {

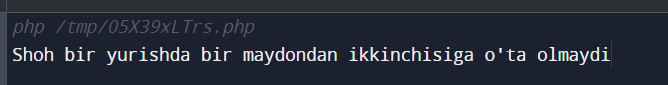
echo "Shoh bir yurishda bir maydondan ikkinchisiga o'ta oladi";

} else {

echo "Shoh bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";

}

?>



38)

<?php

// Berilgan koordinalar

$x1 = 3;

$y1 = 4;

$x2 = 6;

$y2 = 7;

// Koordinatalarni tekshirish

if (abs($x1 - $x2) == abs($y1 - $y2)) {

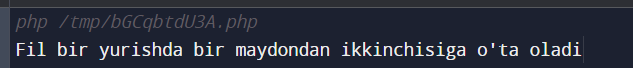
echo "Fil bir yurishda bir maydondan ikkinchisiga o'ta oladi";

} else {

echo "Fil bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";

}

?>



39)

<?php

$x1 = 4;

$y1 = 4;

$x2 = 6;

$y2 = 6;

if (abs($x1 - $x2) == abs($y1 - $y2) || $x1 == $x2 || $y1 == $y2) {

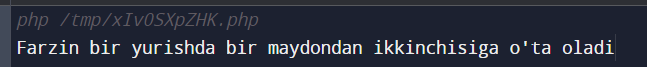
echo "Farzin bir yurishda bir maydondan ikkinchisiga o'ta oladi";

} else {

echo "Farzin bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";

}

?>



40)

<?php

$x1 = 2;

$y1 = 3;

$x2 = 4;

$y2 = 4;

if ((abs($x1 - $x2) == 1 && abs($y1 - $y2) == 2) || (abs($x1 - $x2) == 2 && abs($y1 - $y2) == 1)) {

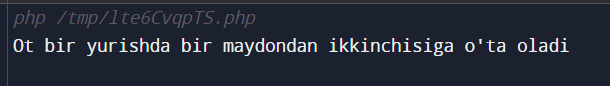
echo "Ot bir yurishda bir maydondan ikkinchisiga o'ta oladi";

} else {

echo "Ot bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";

}

?>



**If**

If 1. Son berilgan bo’lsin musbat bo’lsa 1 ga oshirilsin aks holda o’zgartirilmasin.

<?php

$a=2;

if($a>0){

$a1=$a+1;

echo $a1;

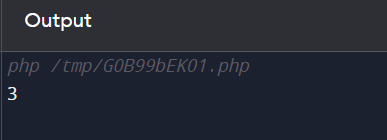
}

else{

echo $a;

}

?>



If 2. Son berilgan bo’lsin musbat bo’lsa 1 ga oshirilsin aks holda 2ga kamaytiring .

<?php

<?php

$a=-1;

if($a>0){

$a1=$a+1;

echo $a1;

}

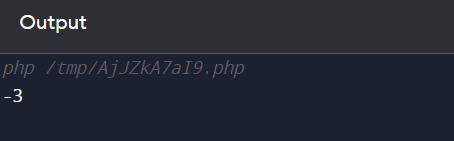
else{

$a2=$a-2;

echo $a2;

}

?>



If 3. Son berilgan bo’lsin musbat bo’lsa 1 ga oshirilsin aks holda 2ga kamaytiring, agar son 0 ga teng bo’la 10 ni o’zlashtirsin.

<?php

$a=-2;

if($a>0){

$a1=$a+1;

echo $a1;

}

else if($a<0){

$a3=$a-2;

echo $a3;

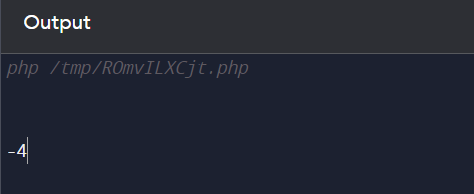
}

else{

echo "10";

}

?>



If 4. 3ta musbat son berilgan. Shu sonlardan nechta musbat borligini aniqlovchi program tuzilsin.

<?php

$a=-3;

$b=2;

$c=2;

if($a>0 and $b>0 and $c>0){

echo "3 ta son ham musbat";

}

else if($a>0 and $b>0 and $c<0){

echo "a va b son musbat";

}

else if($a>0 and $b<0 and $c>0){

echo "a va c son musbat";

}

else if($a<0 and $b>0 and $c>0){

echo "b va c son musbat";

}

else if($a<0 and $b<0 and $c>0){

echo "c son musbat";

}

else if($a>0 and $b<0 and $c<0){

echo "a son musbat";

}

else if($a<0 and $b>0 and $c<0){

echo "b son musbat";

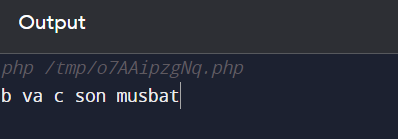
}

else{

echo "hamma son maniy";

}

?>



If 5. 3ta musbat son berilgan. Shu sonlardan nechta musbat va manfiy borligini aniqlovchi program tuzilsin.

<?php

$a=-3;

$b=-2;

$c=2;

if($a>0 and $b>0 and $c>0){

echo "3 ta son ham musbat";

}

else if($a>0 and $b>0 and $c<0){

echo "a va b son musbat c son manfiy";

}

else if($a>0 and $b<0 and $c>0){

echo "a va c son musbat b son manfiy";

}

else if($a<0 and $b<0 and $c>0){

echo "a va b son manfiy c musbat";

}

else if($a>0 and $b<0 and $c<0){

echo "a son musbat b va c manfiy";

}

else if($a<0 and $b>0 and $c<0){

echo "b son musbat a va c manfiy";

}

else if($a<0 and $b<0 and $c>0){

echo "c son musbat a va b manfiy";

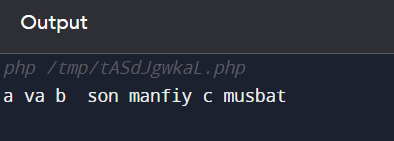
}

else{

echo "hamma son manfiy";

}

?>



If 6. 2ta son berilgan shu sonlarning kattasi aniqlansin.

<?php

$a=-3;

$b=9;

if($a>$b){

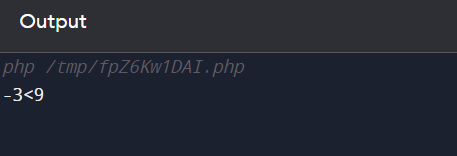
echo "$a>$b dan";

}

else{

echo "$a<$b";

}



If7.2ta sondan kichigini tartib raqamini chiqaruvchi pragrama tuzilsin.

<?php

$a=-3;

$b=9;

if($a>$b){

echo "2-son kichkina";

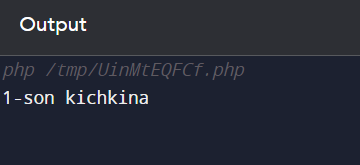
}

else{

echo "1-son kichkina";

}

?>



If8 .2ta sondan avval kattasini keyin kichigini chiqaruvchi pragrama tuzilsin.

<?php

$a=21;

$b=19;

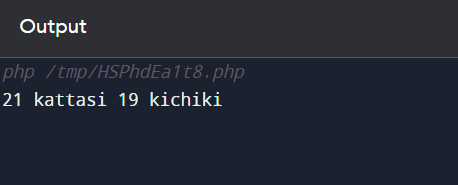
if($a>$b){

echo "$a kattasi $b kichiki";

}

else{

echo "$b kattasi $a kichiki"; }?>



If9 .a va b haqiqiy sonlar berilgan shu sonlarni shunday ozgartirish kerakki a son kichik b son kata bo’lsin.

<?php

$a=21.6;

$b=19.9;

if ($a<$b){

echo "$a kichik $b dan";

}

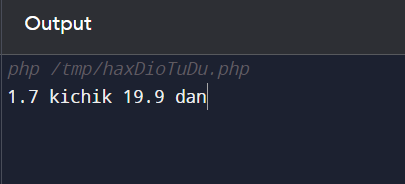
else if ($a>$b){

$a=$a-$b;

echo "$a kichik $b dan";

}

?>



If10 .a va b haqiqiy sonlar berilgan agar o’zgaruvchilar teng bolmasa kattasini chiqarsin agar teng bolsa 0 ni o’zlashtirsin.

<?php

$a=21.9;

$b=21.9;

if ($a!=$b){

if($a>$b){

echo " $a";

}

else{

echo "$b";

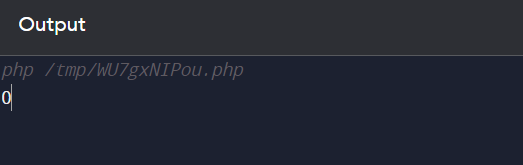
}

}

else{

echo "0";

}?>



If 11.

<?php

function numbers($A, $B) {

if ($A != $B) {

return max($A, $B);

} else {

return 0;

}

}

// Test qilish

$A = 10;

$B = 15;

$result = numbers($A, $B);

echo "Natija: $result"; // Chiqaradi: 15

$A = 20;

$B = 5;

$result = numbers($A, $B);

echo "\nNatija: $result"; // Chiqaradi: 20

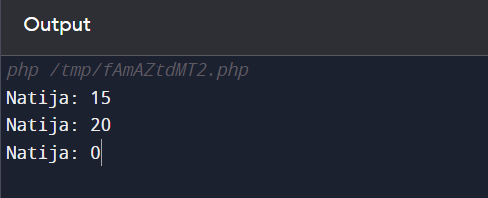
$A = 7;

$B = 7;

$result = numbers($A, $B);

echo "\nNatija: $result"; // Chiqaradi: 0

?>



If 12.

<?php

function findSmallest($num) {

// Uchta sonni kichigini topish

$sma = $num[0];

foreach ($num as $num) {

if ($num < $sma) {

$sma = $num;

}

}

return $sma;

}

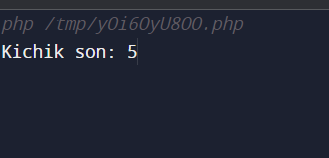
// Test qilish

$num = array(10, 5, 7);

$sma = findSmallest($num);

echo "Kichik son: $sma"; // Chiqaradi: 5

?>



If 13.

<?php

function findMiddle($num1, $num2, $num3) {

// Uchta sonni o'rtachasi

$middle = $num1;

// Katta sonni topish

if ($num1 >= $num2 && $num1 >= $num3) {

if ($num2 >= $num3) {

$middle = $num2;

} else {

$middle = $num3;

}

}

// Kichik sonni topish

elseif ($num1 <= $num2 && $num1 <= $num3) {

if ($num2 <= $num3) { $middle = $num2;

} else { $middle = $num3; } }

return $middle;}

// Test qilish

$num1 = 10;

$num2 = 5;

$num3 = 7;

$middle = findMiddle($num1, $num2, $num3);

echo "O'rta son: $middle"; // Chiqaradi: 7

?>



If 14.

<?php

function printMinMax($num1, $num2, $num3) {

// Sonlarni to'plab, kichikdan kattaga tartiblash

$numbers = array($num1, $num2, $num3);

sort($numbers);

// Kichik sonni ekranga chiqarish

echo "Kichik son: " . $numbers[0] . "<br>";

// Katta sonni ekranga chiqarish

echo "Katta son: " . $numbers[2];

}

// Test qilish

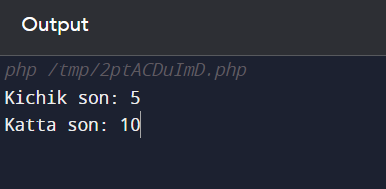
$num1 = 10;

$num2 = 5;

$num3 = 7;

printMinMax($num1, $num2, $num3);

?>



If 15.

<?php

function printTwoLargestSum($num1, $num2, $num3) {

// Sonlarni to'plab, tartiblash

$numbers = array($num1, $num2, $num3);

rsort($numbers);

// Ikki eng katta sonni topish

$largest1 = $numbers[0];

$largest2 = $numbers[1];

// Ikki eng katta sonni ekranga chiqarish

echo "Ikki eng katta son: $largest1 va $largest2";

}

// Test qilish

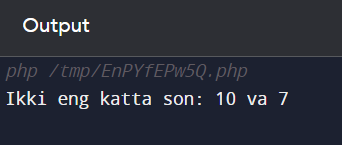
$num1 = 10;

$num2 = 5;

$num3 = 7;

printTwoLargestSum($num1, $num2, $num3);

?>



If 16.

<?php

function swapIfNeeded(&$a, &$b) {

if ($a > $b) {

$temp = $a;

$a = $b;

$b = $temp;

}

}

// A, B, va C ni olish

$A = 10;

$B = 5;

$C = 7;

// Sonlarni o'sish tartibida tartiblash

swapIfNeeded($A, $B);

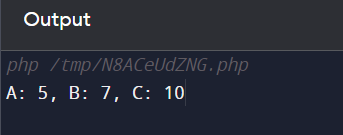
swapIfNeeded($B, $C);

swapIfNeeded($A, $B);

// Qiymatlarni ekranga chiqarish

echo "A: $A, B: $B, C: $C";

?>



If 17.

<?php

function swapIfNeeded(&$a, &$b) {

if ($a > $b) {

$temp = $a;

$a = $b;

$b = $temp;

}

}

// A, B, va C ni olish

$A = 10;

$B = 5;

$C = 7;

// Sonlarni o'sish tartibida tartiblash

swapIfNeeded($A, $B);

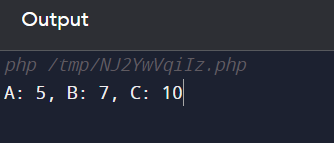
swapIfNeeded($B, $C);

swapIfNeeded($A, $B);

// Qiymatlarni ekranga chiqarish

echo "A: $A, B: $B, C: $C";

?>



If 18.

<?php

function findUniqueNumber($num1, $num2, $num3) {

if ($num1 == $num2) {

return $num3;

} elseif ($num1 == $num3) {

return $num2;

} else {

return $num1;

}

}

// Test qilish

$num1 = 5;

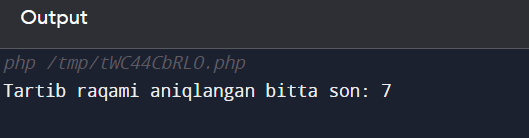
$num2 = 7;

$num3 = 5;

$uniqueNumber = findUniqueNumber($num1, $num2, $num3);

echo "Tartib raqami aniqlangan bitta son: $uniqueNumber";

?>



If 19.

<?php

function findUniqueNumber($num1, $num2, $num3, $num4) {

if ($num1 == $num2 && $num1 == $num3) {

return $num4;

} elseif ($num1 == $num2 && $num1 == $num4) {

return $num3;

} elseif ($num1 == $num3 && $num1 == $num4) {

return $num2;

} elseif ($num2 == $num3 && $num2 == $num4) {

return $num1;

}

}

// Test qilish

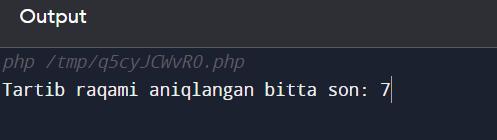
$num1 = 5;

$num2 = 7;

$num3 = 5;

$num4 = 5;

$uniqueNumber = findUniqueNumber($num1, $num2, $num3, $num4);

echo "Tartib raqami aniqlangan bitta son: $uniqueNumber";?> 

If 20.

<?php

function distance($x1, $y1, $x2, $y2) {

return sqrt(pow($x2 - $x1, 2) + pow($y2 - $y1, 2));

}// Uchta nuqta

$xA = 1;

$yA = 2;

$xB = 4;

$yB = 6;

$xC = 7;

$yC = 8;

// Masofalar

$distanceAB = distance($xA, $yA, $xB, $yB);

$distanceAC = distance($xA, $yA, $xC, $yC);

$distanceBC = distance($xB, $yB, $xC, $yC);

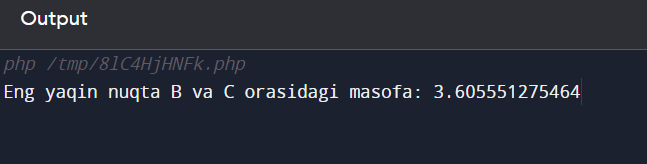
if ($distanceAB <= $distanceAC && $distanceAB <= $distanceBC) {

echo "Eng yaqin nuqta A va B orasidagi masofa: $distanceAB";

} elseif ($distanceAC <= $distanceAB && $distanceAC <= $distanceBC) {

echo "Eng yaqin nuqta A va C orasidagi masofa: $distanceAC";

} else { echo "Eng yaqin nuqta B va C orasidagi masofa: $distanceBC";

}?>

If 21.

<?php

function findPointLocation($x, $y) {

if ($x == 0 && $y == 0) {

return 0;

} elseif ($x == 0 || $y == 0) {

return 1;

} elseif ($x != 0 && $y != 0) {

return 3;

}

}

// Koordinatalar

$x = 0;

$y = 5;

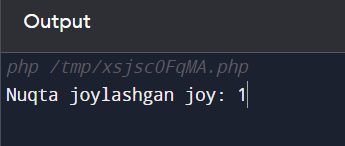
// Nuqta joylashgan joyini topish

$location = findPointLocation($x, $y);

// Natijani chiqarish

echo "Nuqta joylashgan joy: $location";

?>



If 22.

<?php

function findPointLocation($x, $y) {

if ($x == $y) {

return "Nuqta chorak koordinata o'qlarining orasida joylashgan";

} else {

return "Nuqta boshqa joyda joylashgan";

}

}

// Koordinatalar

$x = 3;

$y = 3;

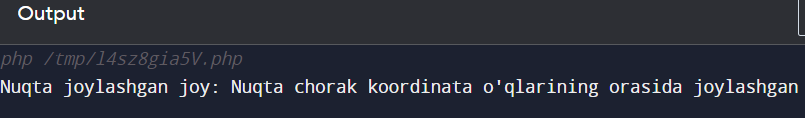
// Nuqta joylashgan joyini topish

$location = findPointLocation($x, $y);

// Natijani chiqarish

echo "Nuqta joylashgan joy: $location";

?>



If 23.

<?php

function findFourthCoordinate($side1, $side2, $side3) {

return $side3 - abs($side1 - $side2);

}

// Uchta tomon uzunligi

$side1 = 5;

$side2 = 7;

$side3 = 9;

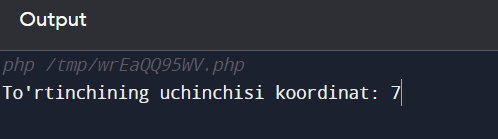
// To'rtinchining uchinchisi koordinatini topish

$fourthCoordinate = findFourthCoordinate($side1, $side2, $side3);

// Natijani chiqarish

echo "To'rtinchining uchinchisi koordinat: $fourthCoordinate";

?>



If 24.

<?php

function calculateFunction($x) {

if ($x > 0) {

return 2 \* sin($x);

} else {

return $x - 6;

}

}

// Test qilish

$x = 3;

$result = calculateFunction($x);

echo "f($x) = $result"; // Agar x > 0 bo'lsa, sin(3) \* 2; aks holda 3 - 6 = -3.

?>



If 25.

<?php

function calculateFunction($x) {

if ($x < -2 || $x > -3) {

return 2 \* $x;

} else {

return -3 \* $x;

}

}

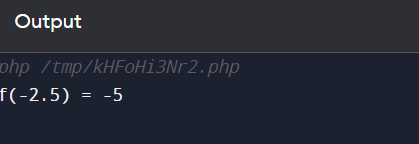
// Test qilish

$x = -2.5;

$result = calculateFunction($x);

echo "f($x) = $result"; // Agar x < -2 yoki x > -3 bo'lsa, 2 \* x; aks holda -3 \* x.

?>



If 26.

<?php

function calculateFunction($x) {

if ($x <= 0) {

return -$x;

} elseif ($x > 0 && $x < 2) {

return $x \* $x;

} else {

return 4;

}

}

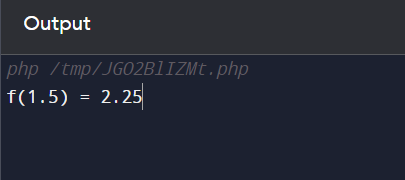
// Test qilish

$x = 1.5;

$result = calculateFunction($x);

echo "f($x) = $result";

?>



If 27.

<?php

function calculateFunction($x) {

if ($x < 0) {

return 0;

} elseif ($x % 2 == 0 && $x % 2 != 0) {

return 1;

} else {

return -1;

}

}

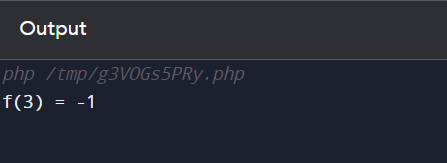
// Test qilish

$x = 3;

$result = calculateFunction($x);

echo "f($x) = $result"; // Agar x < 0 bo'lsa, 0; agar x muzoj toq son bo'lsa, 1; agar x juft son bo'lsa, -1.

?>



If 28.

<?php

function countDaysInYear($year) {

if (($year % 4 == 0 && $year % 100 != 0) || $year % 400 == 0) {

return 366;

} else {

return 365;

}

}

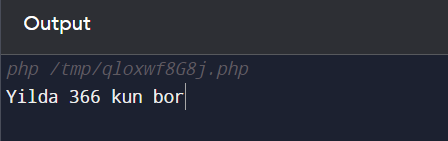
// Test qilish

$year = 2024;

$days = countDaysInYear($year);

echo "Yilda $days kun bor";

?>



if 29.

<?php

function classifyNumber($number) {

if ($number == 0) {

echo "Berilgan son nolga tengdir.";

} elseif ($number > 0 && $number % 2 != 0) {

echo "Berilgan son musbat toq son.";

} elseif ($number < 0 && $number % 2 == 0) {

echo "Berilgan son manfiy juft son.";

} else {

echo "Berilgan son musbat juft son.";

}

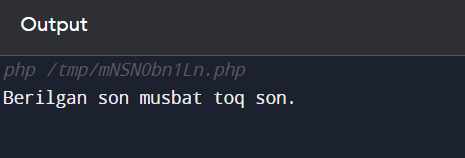
}

// Test qilish

$number = 7;

classifyNumber($number);

?>



If 30.

<?php

function yozuvShaklidaChiqar($son) {

$onlar = array(

"", "o'n", "yigirma", "o'ttiz", "qirq", "ellik", "oltmish", "yetmish", "sakson", "to'qson"

);

$birliklar = array(

"", "bir", "ikki", "uch", "to'rt", "besh", "olti", "yetti", "sakkiz", "to'qqiz"

);

$yuzlar = array(

"", "bir yuz", "ikki yuz", "uch yuz", "to'rt yuz", "besh yuz", "olti yuz", "yetti yuz", "sakkiz yuz", "to'qqiz yuz"

);

$yuz = floor($son / 100);

$qoldiq = $son % 100;

$o = floor($qoldiq / 10);

$b = $qoldiq % 10;

$yozuv = "";

if ($yuz > 0) {

$yozuv .= $yuzlar[$yuz] . " ";

}

if ($o > 0) {

$yozuv .= $onlar[$o] . " ";

}

if ($b > 0) {

$yozuv .= $birliklar[$b];

}

return $yozuv;

}

$son = 123;

echo yozuvShaklidaChiqar($son);

?>

