

**O'ZBEKISTON RESPUBLIKASI**  
**OLIY TA'LIM FAN VA INNOVATSIALAR VAZIRLIGI**  
**SAMARQAND DAVLAT UNIVERSITETI**  
**INTELLEKTUAL TIZMILAR VA KOMPYUTER**  
**TEXNOLOGIYALAR FAKULTETI**

**DASTURIY INJINERING YO'NALISHI**

**204 – GURUH TALABASI**

**Turopov Amriddinning**

**WEB TEXNOLOGIYA FANIDAN**

**MUSTAQIL ISHI**

**Tekshirdi: SAYIDQULOV. A**

**SAMARQAND – 2024**

## BOOLEAN

26)

```
<?php
```

```
$x = 3;
```

```
$y = -4;
```

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

```
    echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining birinchi cho-  
ragida yotadi";
```

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

```
    echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining ikkinchi cho-  
ragida yotadi";
```

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

```
    echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining uchinchi cho-  
ragida yotadi";
```

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

```
    echo "Koordinatalari ($x,$y) bo'lgan nuqta koordinata choragining to'rtinchi cho-  
ragida 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";
```

```
  }
```

```
?>
```

```
php /tmp/2sqpYfvK5w.php
```

```
Koordinatalari (3,-4) bo'lgan nuqta koordinata choragining to'rtinchi choragida 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 cho-
    ragida yotadi";
```

```
  }
```

```
?>
```

```
php /tmp/foS9q4QGZm.php
```

```
Koordinatalari (-3,4) bo'lgan nuqta koordinata choragining ikkinchisida 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 cho-  
    ragida yotadi";
```

```
}
```

```
?>
```

```
php /tmp/junahoLcCX.php
```

```
Koordinatalari (3,4) bo'lgan nuqta koordinata choragining birinchi yoki uchunchisida  
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";
```

```
}
```

```
?>
```

```
php /tmp/XufIFje2zC.php
```

```
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) {

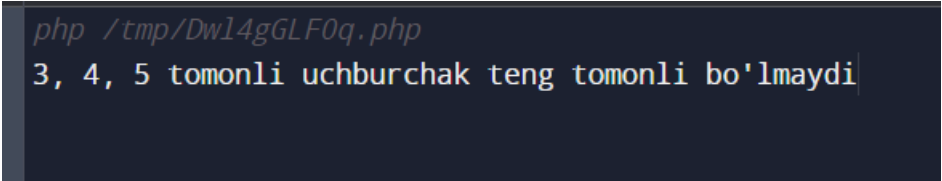
    echo "$a, $b, $c tomonli uchburchak teng tomonli bo'ladi";

} else {

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

}

?>
```

A screenshot of a terminal window with a dark background. The first line shows a PHP command being executed: `php /tmp/Dwl4gGLF0q.php`. The second line shows the output of the script: `3, 4, 5 tomonli uchburchak teng tomonli bo'lmaydi`.

```
php /tmp/Dwl4gGLF0q.php
3, 4, 5 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";
```

```
}
```

```
?>
```

```
php /tmp/KCKMBIg9tP.php
```

```
3, 4, 5 tomonli uchburchak teng yonli bo'ladi
```

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";
```

```
}
```

```
?>
```

```
php /tmp/4GsNXiZEKj.php
```

```
3, 4, 5 tomonli uchburchak to'g'ri burchakli
```



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";
```

```
}
```

```
?>
```



```
php /tmp/40KmCq1Vmp.php
```

```
3, 4, 5 tomonli uchburchak yasash mumkin
```

34)

```
<?php
```

```
$x = 4;
```

```
$y = 5;
```

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

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

```
} else {
```

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

```
}
```

```
?>
```

```
php /tmp/1465ESaqhy.php
Berilgan (4, 5) 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";
```

```
}
```

```
?>
```

```
php /tmp/KTnPCvs14k.php
Ruh bir yurishda bir maydondan ikkinchisiga o'ta oladi
```

36)

```
<?php
```

```
$x1 = 4;
```

```
$y1 = 4;
```

```
$x2 = 6;
```

```
$y2 = 6;
```

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

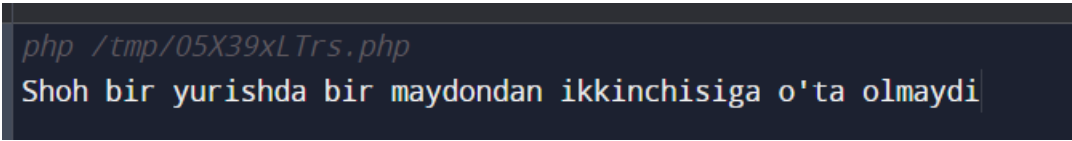
```
    echo "Shoh bir yurishda bir maydondan ikkinchisiga o'ta oladi";
```

```
} else {
```

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

```
}
```

```
?>
```



```
php /tmp/05X39xLTrs.php
```

```
Shoh bir yurishda bir maydondan ikkinchisiga o'ta olmaydi
```

38)

```
<?php
```

```
// Berilgan koordinalar
```

```
$x1 = 3;
```

```
$y1 = 4;
```

```
$x2 = 6;
```

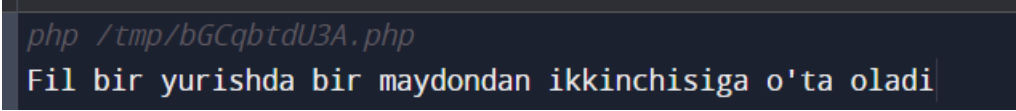
```
$y2 = 7;
```

```
// Koordinatalarni tekshirish
```

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

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

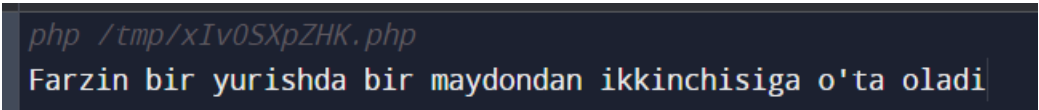
```
} else {  
    echo "Fil bir yurishda bir maydondan ikkinchisiga o'ta olmaydi";  
}  
?>
```



```
php /tmp/bGCqbtDU3A.php  
Fil bir yurishda bir maydondan ikkinchisiga o'ta oladi
```

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";  
}  
?>
```



```
php /tmp/xIv0SXpZHK.php  
Farzin bir yurishda bir maydondan ikkinchisiga o'ta oladi
```

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";  
}  
?>
```

```
php /tmp/lte6CvqpTS.php
```

```
Ot bir yurishda bir maydondan ikkinchisiga o'ta oladi
```

## 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;
}
?>
```

### Output

```
php /tmp/G0B99bEK01.php
3
```

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;  
}  
?>
```

## Output

```
php /tmp/AjJZkA7aI9.php  
-3
```

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";  
}  
?>
```

## Output

*php /tmp/ROmvILXCjt.php*

*-4|*

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";
}
?>

```

## Output

```

php /tmp/o7AAipzgNq.php
b va c son musbat|

```

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";  
}  
?>
```

## Output

```
php /tmp/tASdJgwkaL.php  
a va b son manfiy c musbat
```

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";  
}
```

## Output

```
php /tmp/fpZ6Kw1DAI.php  
-3<9
```

If 7. 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";  
    }  
?>
```

### Output

```
php /tmp/UinMtEQFCf.php  
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"; }?>
```

### Output

```
php /tmp/HSPhdEa1t8.php  
21 kattasi 19 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";
}
?>
```

### Output

```
php /tmp/haxDioTuDu.php
1.7 kichik 19.9 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";  
}?>
```

## Output

```
php /tmp/WU7gxNIPou.php  
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

?>
```

### Output

```
php /tmp/fAmAZtdMT2.php
Natija: 15
Natija: 20
Natija: 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;
    }

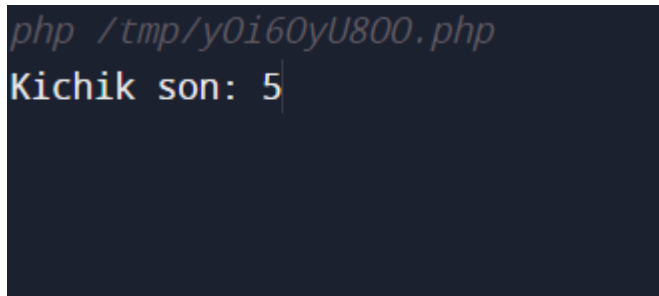
// Test qilish

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

$sma = findSmallest($num);

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

?>
```



```
php /tmp/y0i60yU800.php
Kichik son: 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

?>

```

Output

```

php /tmp/BgVF05r1eM.php
O'rta son: 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

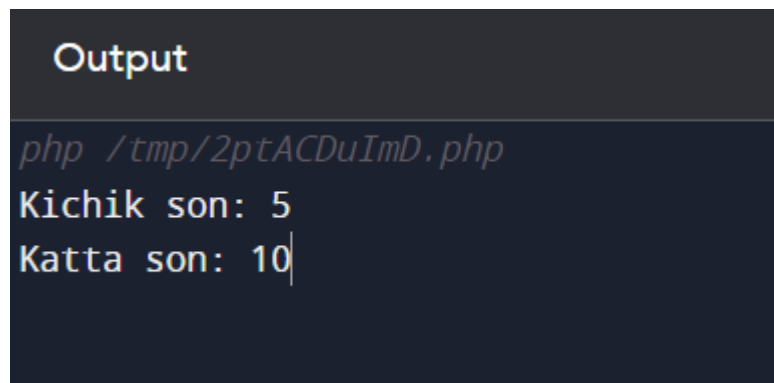
$num1 = 10;

$num2 = 5;

$num3 = 7;

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

?>
```



```
Output
php /tmp/2ptACDuImD.php
Kichik son: 5
Katta son: 10|
```

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);  
  
?>
```

### Output

```
php /tmp/EnPYfEPw5Q.php  
Ikki eng katta son: 10 va 7
```

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";  
?>
```

### Output

```
php /tmp/N8ACeUdZNG.php  
A: 5, B: 7, C: 10
```

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";
```

```
?>
```

## Output

```
php /tmp/NJ2YwVqiIz.php
```

```
A: 5, B: 7, C: 10|
```

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";
```

```
?>
```

## Output

```
php /tmp/tWC44CbRLO.php
```

```
Tartib raqami aniqlangan bitta son: 7
```

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";?>
```

**Output**

```
php /tmp/q5cyJCwvR0.php
```

```
Tartib raqami aniqlangan bitta son: 7|
```

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";
```

```
}?>
```

## Output

```
php /tmp/81C4HjHNFk.php
```

```
Eng yaqin nuqta B va C orasidagi masofa: 3.605551275464
```



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";
```

```
?>
```

## Output

```
php /tmp/xsjsc0FqMA.php  
Nuqta joylashgan joy: 1|
```

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";
```

```
?>
```

#### Output

```
php /tmp/l4sz8gia5V.php
```

```
Nuqta joylashgan joy: Nuqta chorak koordinata o'qlarining orasida joylashgan
```

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";
```

```
?>
```

## Output

```
php /tmp/wrEaQQ95wV.php
```

```
To'rtinchining uchinchisi koordinat: 7|
```

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.
```

```
?>
```

## Output

```
php /tmp/XnugkbqcA1.php  
f(3) = 0.28224001611973|
```

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.
```

```
?>
```

## Output

```
php /tmp/kHFoHi3Nr2.php
```

```
f(-2.5) = -5
```

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";
```

```
?>
```

## Output

```
php /tmp/JG02BlIZMt.php
```

```
f(1.5) = 2.25
```

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.
```

```
?>
```

## Output

```
php /tmp/g3V0Gs5PRy.php
```

```
f(3) = -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";
```

```
?>
```

## Output

```
php /tmp/qloxwf8G8j.php
```

```
Yilda 366 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);

?>

## Output

```
php /tmp/mNSN0bn1Ln.php  
Berilgan son musbat toq son.
```

If 30.

```
<?php
```

```
function yozuvShaklidaChiqar($son) {
```

```
    $sonlar = 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 .= $sonlar[$o] . " ";
```

```
    }
```

```
if ($b > 0) {  
    $yozuv .= $birliklar[$b];  
}  
return $yozuv;  
}  
$son = 123;  
echo yozuvShaklidaChiqar($son);  
?>
```

### Output

```
php /tmp/CP99FIkFCs.php  
to'rt yuz ellik uch
```