

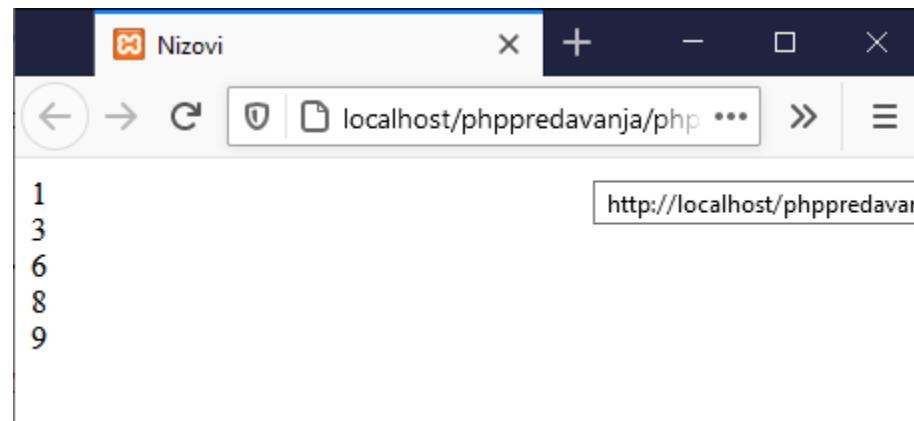
Nizovi

Indeksirani nizovi

- Niz je promenljiva koja može čuvati više vrednosti
- Svaka promenljiva u nizu naziva se član niza
- Svim članovima niza može se pristupiti posredstvom indeksa
- Prvi član niza ima indeks 0
- Veličina niza nije fiksna kao u drugim jezicima

Kreiranje niza

```
<?php  
$a = array(1, 3, 6, 8, 9);  
echo "$a[0] <br>";  
echo "$a[1] <br>";  
echo "$a[2] <br>";  
echo "$a[3] <br>";  
echo "$a[4] <br>";  
  
?>
```



0	1	2	3	4
1	3	6	8	9

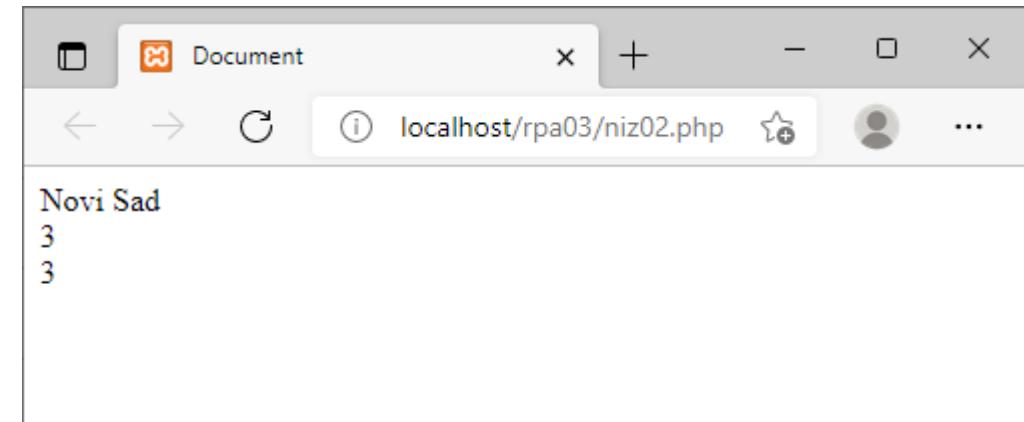


indeksi

članovi

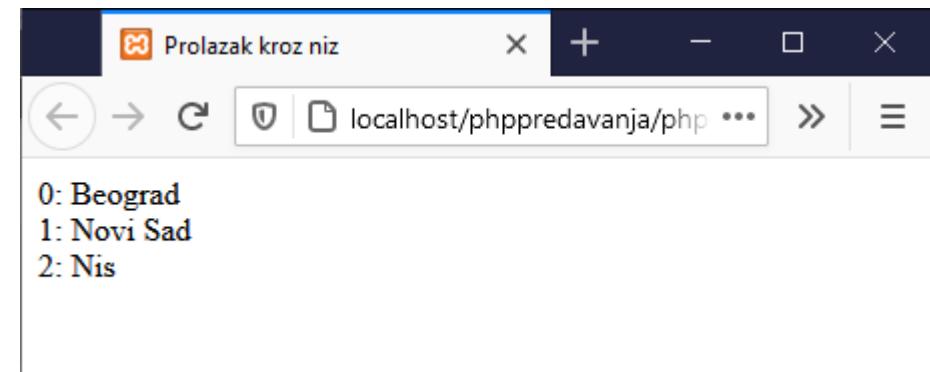
Funkcija count() ili sizeof()

```
<?php
$a = array("Beograd", "Novi Sad", "Nis");
echo $a[1];
echo "<br>";
echo count($a);
echo "<br>";
echo sizeof($a);
?>
```



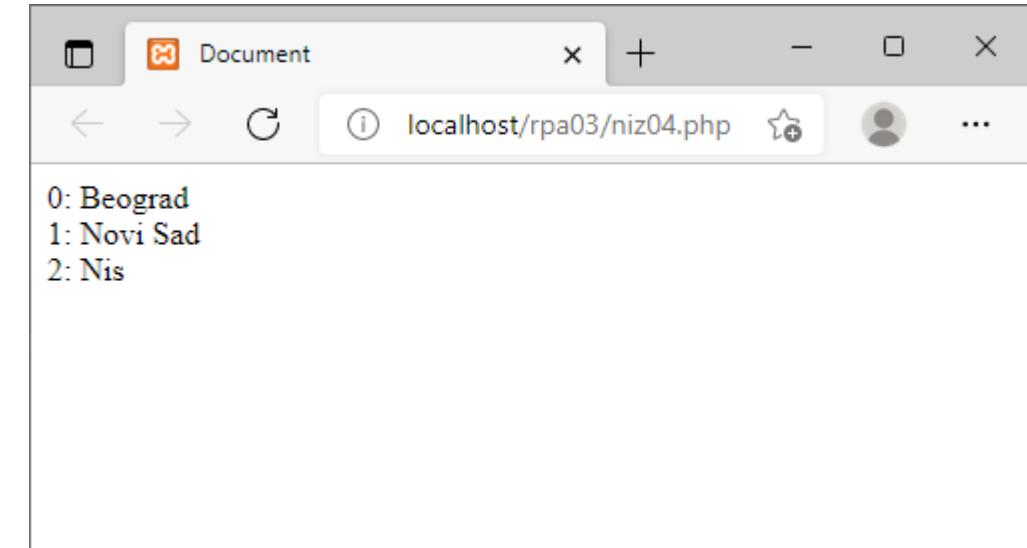
Prolazak kroz niz for petljom

```
<?php  
  
$a = array("Beograd", "Novi Sad", "Nis");  
  
for ($i=0; $i < count($a) ; $i++) {  
    echo "$i: $a[$i]<br>";  
}  
  
?>
```



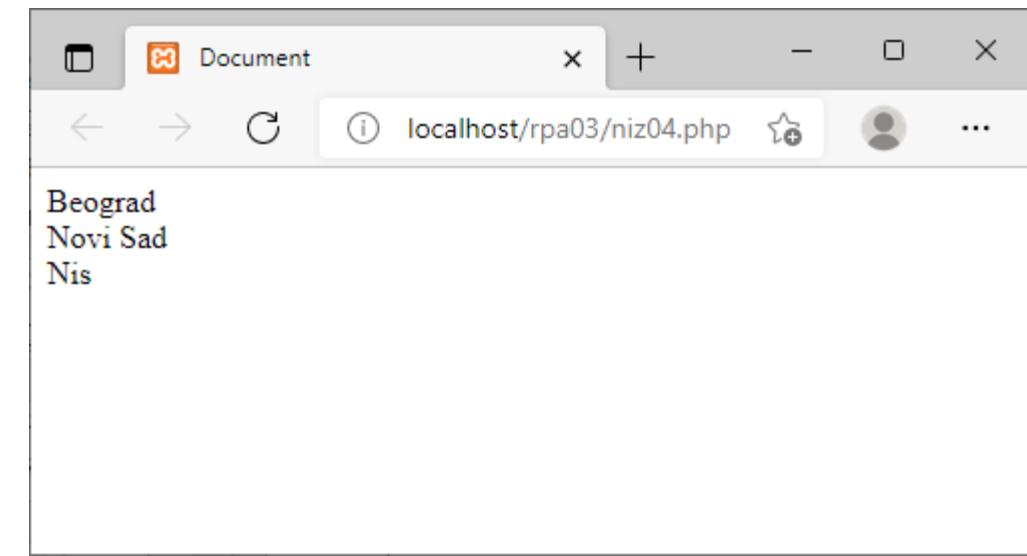
Prolazak kroz niz foreach petljom

```
<?php
//foreach snippet
$a = array('Beograd', 'Novi Sad', 'Nis');
foreach ($a as $key => $value) {
    echo "$key: $value <br>";
}
?>
```



A screenshot of a web browser window titled "Document". The address bar shows "localhost/rpa03/niz04.php". The page content displays three lines of text: "0: Beograd", "1: Novi Sad", and "2: Nis", each followed by a line break.

```
//fore snippet
foreach ($a as $clan) {
    echo $clan . "<br>";
}
```

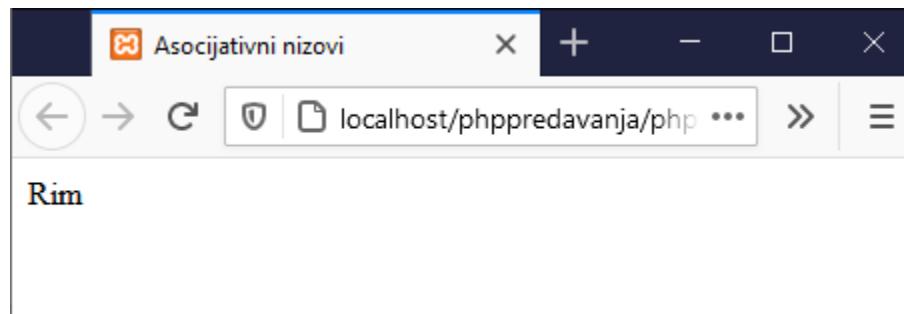


A screenshot of a web browser window titled "Document". The address bar shows "localhost/rpa03/niz04.php". The page content displays three lines of text: "Beograd", "Novi Sad", and "Nis", each followed by a line break.

Asocijativni nizovi

- Članovi asocijativnog niza se identifikuju po ključu

```
<?php
$gradovi = array("Srbija"=>"Beograd", "Italija"=>"Rim", "Grcka"=>"Atina");
echo $gradovi["Italija"];
echo "<br>";
?>
```



Prolazak kroz asocijativni niz foreach petljom

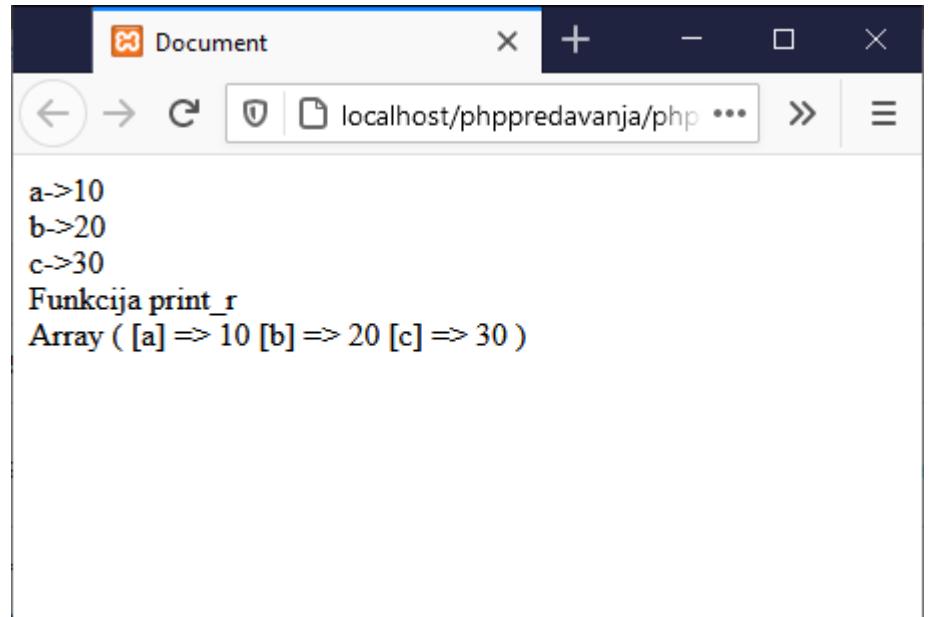
```
<?php
$gradovi = array("Srbija"=>"Beograd", "Italija"=>"Rim", "Grcka"=>"Atina");

foreach ($gradovi as $key => $value) {
    echo $key . ":" . $value . "<br>";
}
?>
```

Funkcija print_r()

Funkcija print_r() daje informacije o promenljivoj na čitljiv način.

```
<?php  
  
$x = array("a" =>10 , "b"=>20, "c"=>30 );  
foreach ($x as $key => $value) {  
    echo $key . "->" . $value . "<br>";  
}  
echo "Funkcija print_r<br>";  
print_r($x);  
?>
```



a->10
b->20
c->30
Funkcija print_r
Array ([a] => 10 [b] => 20 [c] => 30)

Definisanje pojedinačnih članova niza

```
<?php  
// definisanje po članu  
$x[0]=1;  
$x[4]=7;  
print_r($x);  
echo "<br>";
```

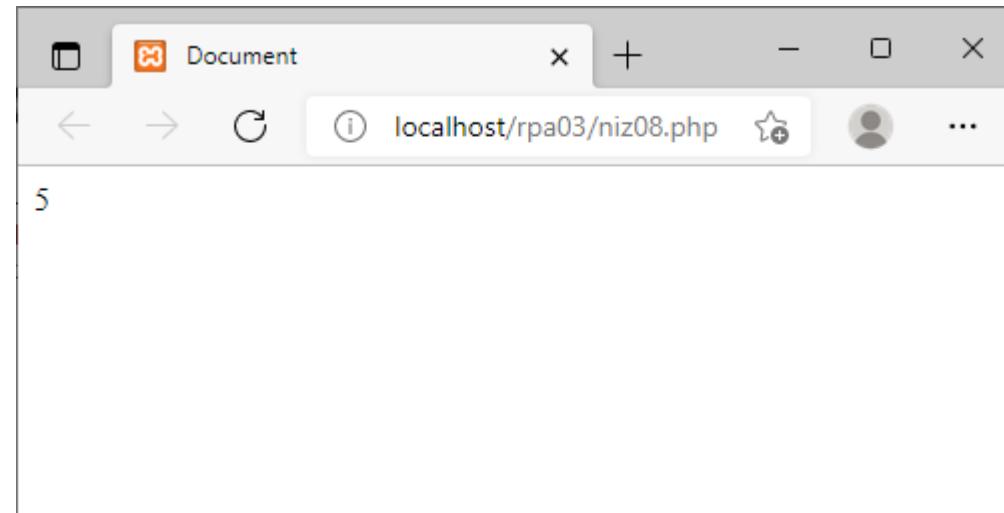
```
// bez indeksiranja  
$a[] = 7;  
$a[] = 9;  
$a[] = 11;  
print_r($a);  
echo "<br>";
```

```
$b['a'] = 'odlican';  
$b['b']= 'vrlo dobar';  
print_r($b);  
echo "<br>";  
?>
```

```
Array ( [0] => 1 [4] => 7 )  
Array ( [0] => 7 [1] => 9 [2] => 11 )  
Array ( [a] => odlican [b] => vrlo dobar )
```

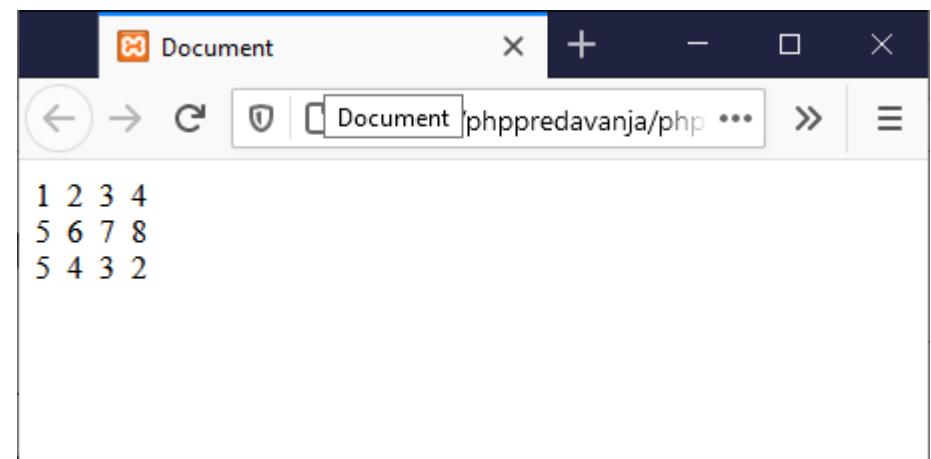
Dvodimenzionalni nizovi

```
<?php  
$niz=array(  
    array(1,2,3),  
    array(2,4,5),  
    array(6,7,8)  
);  
echo $niz[1][2];  
  
?>
```



Štampanje 2D niza

```
<?php  
$x = array(  
    array(1,2,3,4),  
    array(5,6,7,8),  
    array(5,4,3,2)  
);  
  
for ($i=0; $i < 3; $i++) {  
    for ($j=0; $j < 4; $j++) {  
        echo $x[$i][$j]. " &nbsp;";  
    }  
    echo "<br>";  
}  
?>
```



The screenshot shows a browser window titled "Document" with the URL "Document | phppredavanja/php ...". The page content displays a 3x4 grid of numbers:

1	2	3	4
5	6	7	8
5	4	3	2

Upotreba 2D niza

```
<?php
$x = array(
    array("Marko", 70, 89),
    array("Jovan", 87, 68),
    array("Ivan", 60, 89)
);

echo $x[0][0] . " Test1: " . $x[0][1] . " Test2: ". $x[0][2] . "<br>";
echo $x[1][0] . " Test1: " . $x[1][1] . " Test2: ". $x[1][2] . "<br>";
echo $x[2][0] . " Test1: " . $x[2][1] . " Test2: ". $x[2][2] . "<br>";
?>
```

```
<?php
$x = array(
    array("ime"=>"Marko", "test1"=>70, "test2"=>89),
    array("ime"=>"Jovan", "test1"=>87, "test2"=>68),
    array("ime"=>"Ivan", "test1"=>60, "test2"=>89)
);

foreach ($x as $osoba) {
    foreach ($osoba as $key => $value) {
        echo "$key : $value <br>";
    }
    echo "-----<br>";
}
?>
```

ime : Marko
test1 : 70
test2 : 89

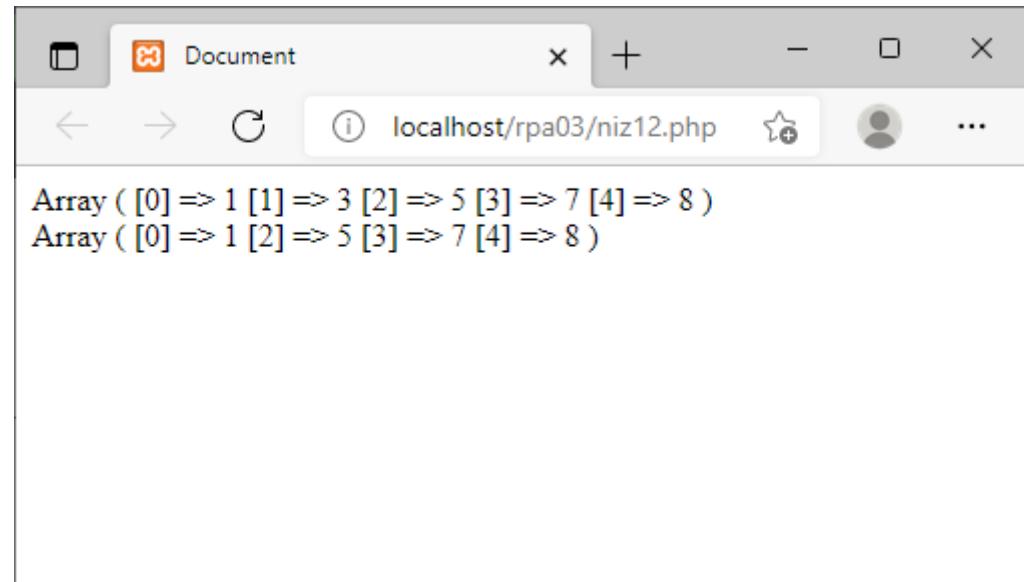
ime : Jovan
test1 : 87
test2 : 68

ime : Ivan
test1 : 60
test2 : 89

Poništavanje niza ili člana niza

```
<?php  
$x = array(1,3,5,7,8);  
print_r($x);  
echo "<br>";  
  
//unisti varijablu $x  
unset($x);  
print_r($x);  
?>
```

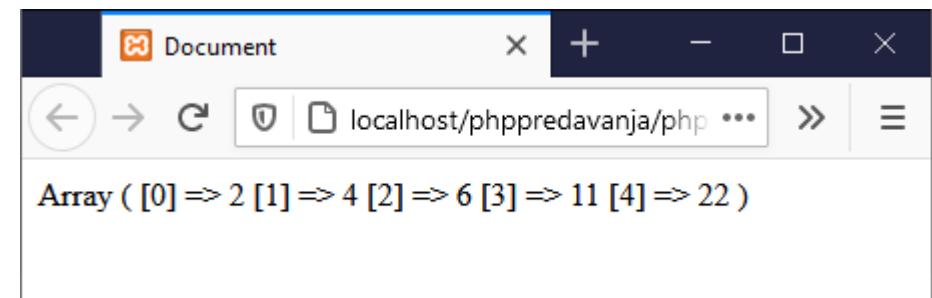
```
<?php  
$x = array(1,3,5,7,8);  
print_r($x);  
echo "<br>";  
  
//unisti varijablu $x[1]  
unset($x[1]);  
print_r($x);  
?>
```



Sortiranje niza

Funkcija sort() sortira niz po vrednostima članova.

```
<?php  
$x = array(4, 6, 2, 22, 11);  
sort($x);  
print_r($x);  
?>
```

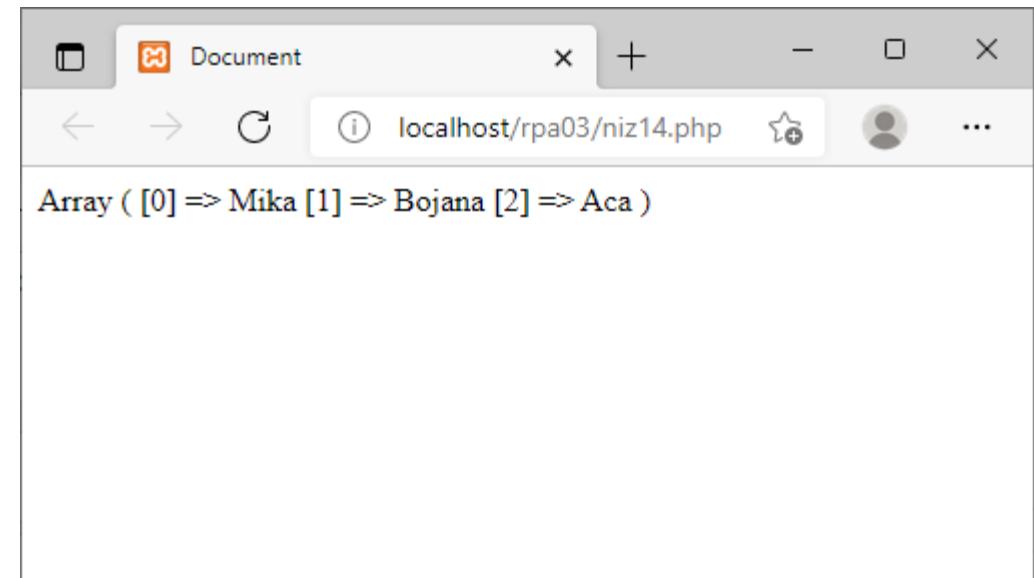


```
Array ( [0] => 2 [1] => 4 [2] => 6 [3] => 11 [4] => 22 )
```

Funkcija rsort()

Sortira niz po vrednostima članova u opadajućem poretku

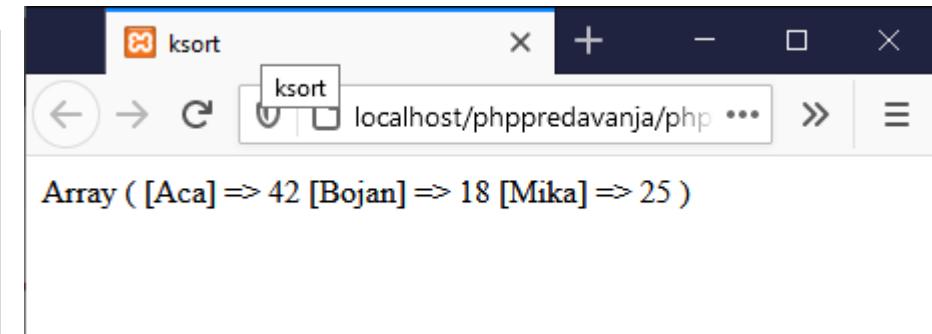
```
<?php  
$imena=array("Aca","Mika","Bojana");  
rsort($imena);  
print_r($imena);  
  
?>
```



Funkcija ksort()

Funkcija ksort() sortira niz po ključevima.

```
<?php  
$imena = array("Mika"=>25, "Bojan"=>18, "Aca"=>42);  
ksort($imena);  
print_r($imena);  
?>
```



```
Array ( [Aca] => 42 [Bojan] => 18 [Mika] => 25 )
```

Funkcija asort()

Sortira asocijativni niz po vrednostima

```
<?php
$imena = array("Mika"=>25, "Bojan"=>18, "Aca"=>42);
asort($imena);
print_r($imena);
?>
```

asort

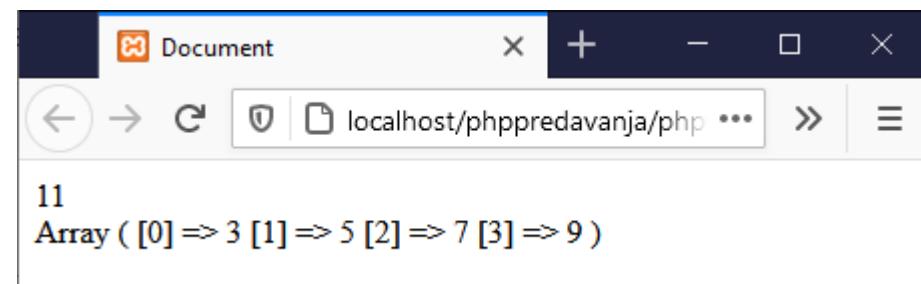
localhost/phppredavanja/php ...

```
Array ( [Bojan] => 18 [Mika] => 25 [Aca] => 42 )
```

Funkcija array_pop()

Uklanja poslednji element niza. Funkcija vraća poslednji element niza.

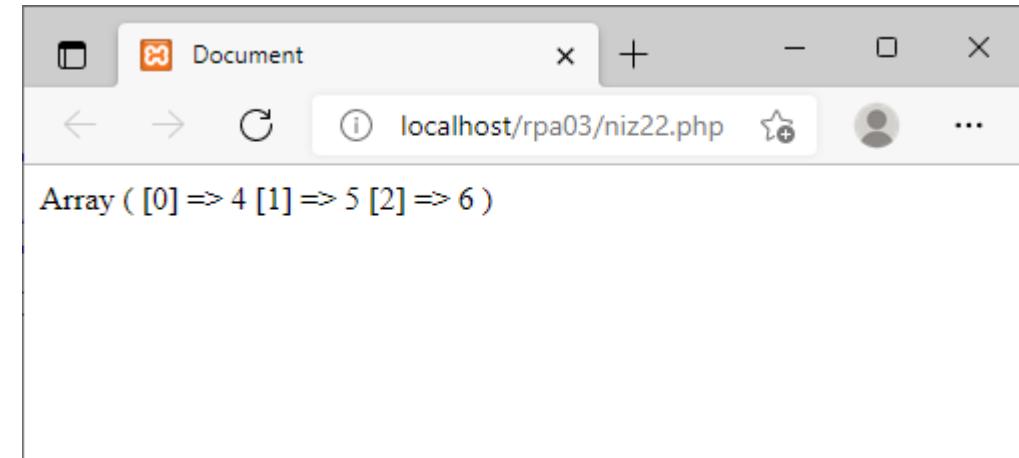
```
<?php  
$x = array(3,5,7,9,11);  
$a = array_pop($x);  
echo $a;  
echo "<br>";  
print_r($x);  
?>
```



Funkcija array_shift

- Uklanja prvi element iz niza

```
<?php  
    $arr = array(3,4,5,6);  
    array_shift($arr);  
    print_r($arr);  
  
?>
```

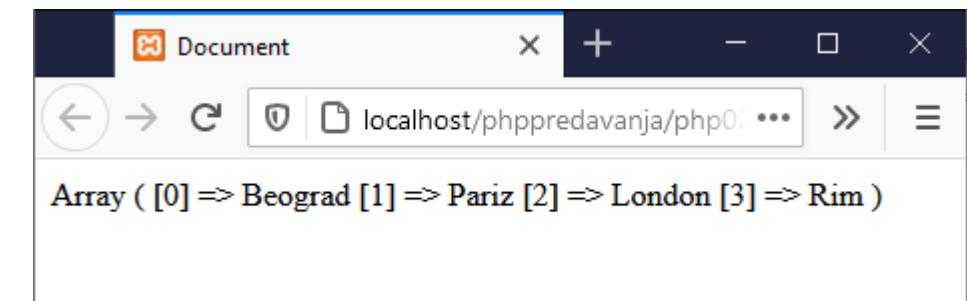


A screenshot of a web browser window titled "Document". The address bar shows "localhost/rpa03/niz22.php". The main content area displays the output of a PHP script: "Array ([0] => 4 [1] => 5 [2] => 6)".

Funkcija array_push()

Dodaje jedan ili više elemenata na kraj niza

```
<?php  
$niz = array("Beograd", "Pariz", "London");  
array_push($niz, "Rim");  
print_r($niz);  
  
?>
```

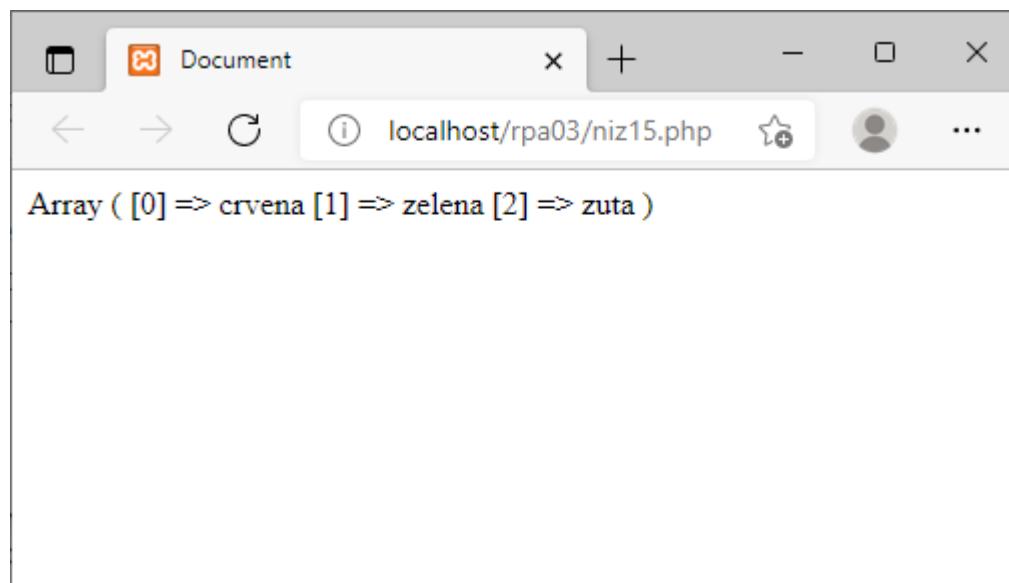


```
$niz[ ] = "Rim";
```

Brisanje elementa sa pozicije u nizu

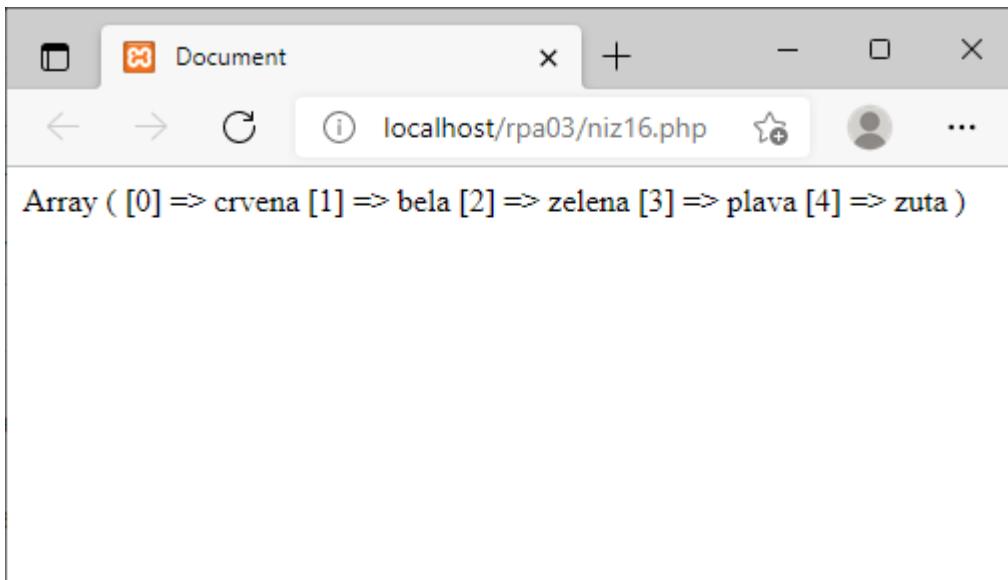
```
array_splice($niz, indeks, brojElemenataZaBrisanje);
```

```
<?php
$boje = array("crvena", "zelena", "plava", "zuta");
array_splice($boje, 2, 1);
print_r($boje);
?>
```



Ubacivanje elemenata na poziciju

```
<?php  
$boje = array("crvena", "zelena", "plava", "zuta");  
array_splice($boje,1,0,"bela");  
print_r($boje);  
?>
```

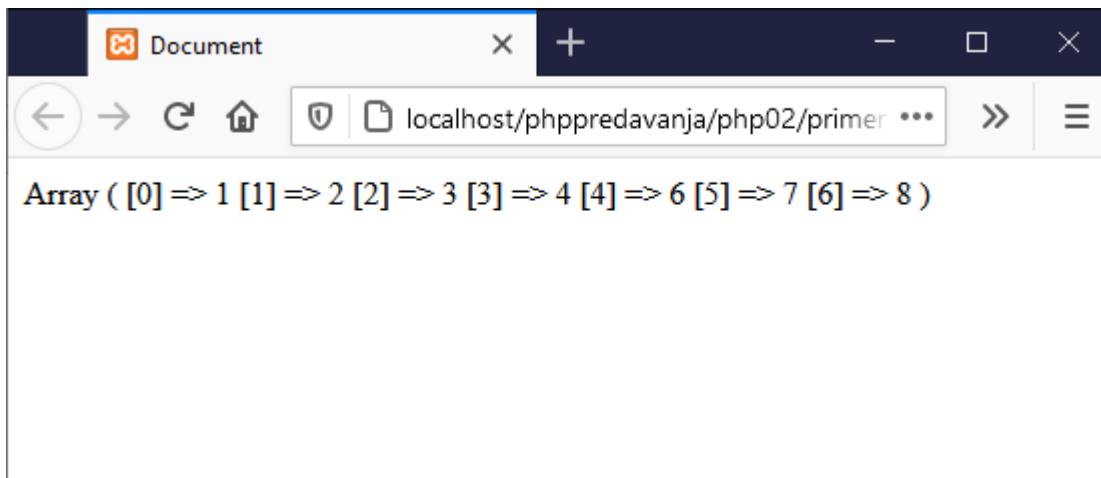


A screenshot of a Microsoft Edge browser window. The title bar says "Document". The address bar shows "localhost/rpa03/niz16.php". The main content area displays the output of the PHP code: "Array ([0] => crvena [1] => bela [2] => zelena [3] => plava [4] => zuta)".

```
array_splice($niz,indeks,0,"elementKojiSeUbacije");
```

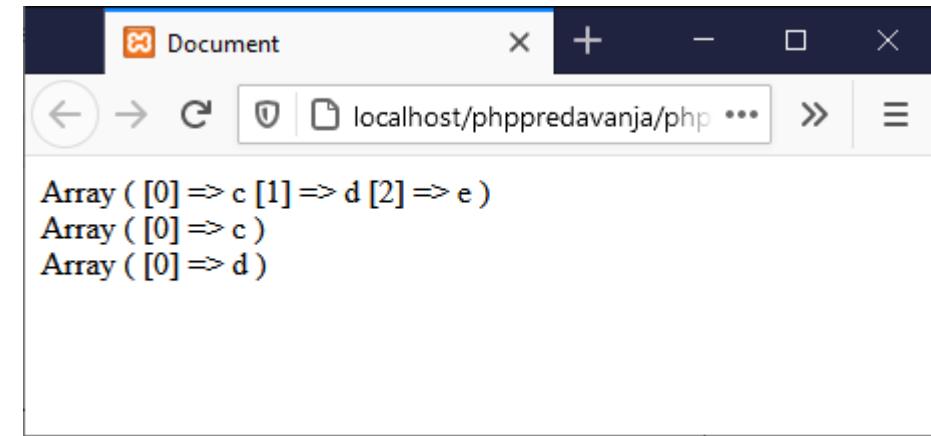
Funkcija array_merge()

```
<?php  
$x1 = array(1,2,3,4);  
$x2 = array(6,7,8);  
  
$x3 = array_merge($x1,$x2);  
  
print_r($x3);  
?>
```



Funkcija array_slice()

```
<?php  
  
$x = array("a", "b", "c", "d", "e");  
  
$a1 = array_slice($x, 2);  
$a2 = array_slice($x, 2, 1);  
$a3 = array_slice($x, -2, 1);  
  
print_r( $a1);  
echo "<br>";  
print_r( $a2);  
echo "<br>";  
print_r( $a3);  
  
?>
```



```
Array ([0] => c [1] => d [2] => e)  
Array ([0] => c)  
Array ([0] => d)
```

negativan offset odnosi se na kraj niza

in_array() funkcija

Pronalazi vrednost u nizu i vraća true ili false.

```
<?php  
$arr=array("Belgrade","Paris","London","Mexico");  
if(in_array("London",$arr)){  
    echo "Pronadjen London";  
}  
?>
```

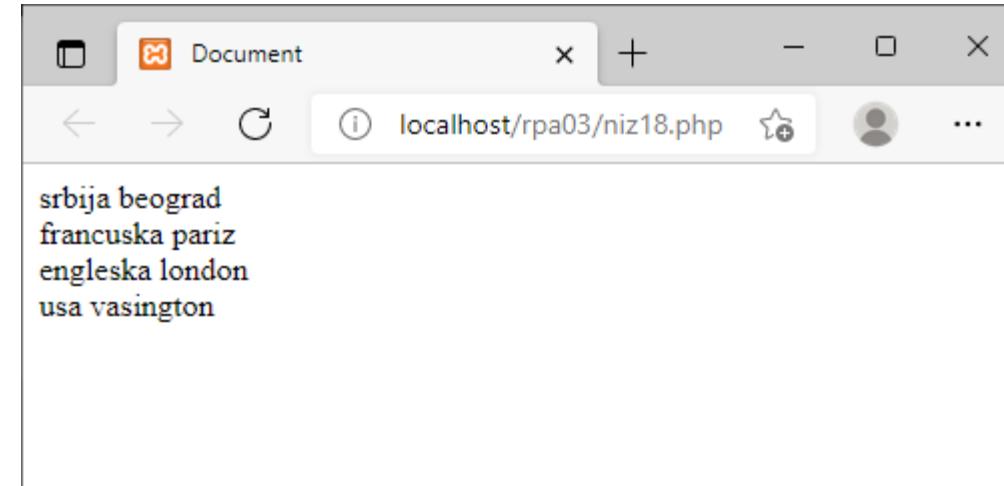
Funkcija array_walk()

Ova funkcija vrši kretanje kroz niz i izvršavanje određene funkcije na svakom članu tog niza.

```
<?php
function stampaj($value, $key)
{
    echo $key . " " . $value . "<br>";
}

$niz = array("srbijska"=>"beograd", "francuska"=>"pariz",
"engleska"=>"london", "usa"=>"vashington");
array_walk($niz,"stampaj");

?>
```



Funkcija array_fill()

- Ukoliko želimo da formirano niz ispunjen nekom statičkom vrednošću, možemo upotrebiti ovu funkciju, pri čemu je prvi parametar – početni indeks niza, drugi parametar - broj ubačenih članova, a poslednji parametar - vrednost koja se ubacuje.

```
<?php  
$x=array_fill(0,100,"pozdrav");  
print_r($x);  
?>
```

Funkcija array_flip()

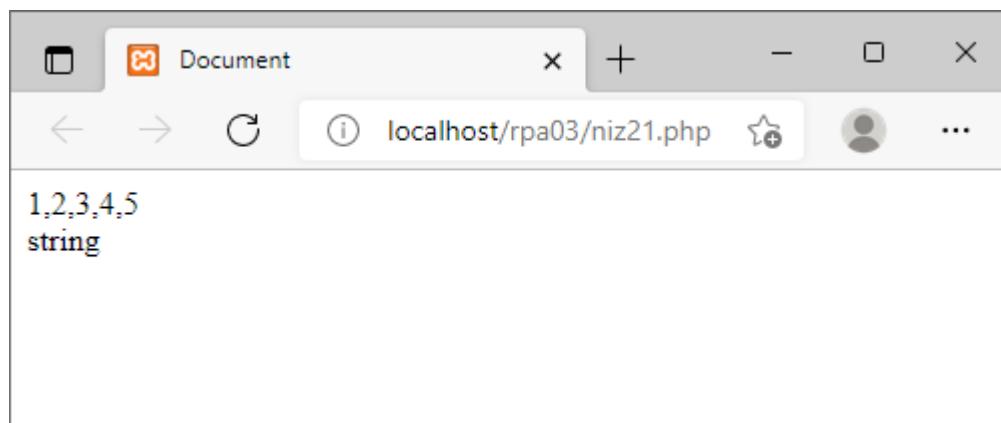
- Menja položaje ključeva i vrednosti.
- Ukoliko je niz sastavljen od ključeva i vrednosti, napraviće zamenu ključeva i vrednosti,
- Ukoliko niz nema ključeve, već samo indekse, zameniće indekse članova za vrednosti članova.

```
<?php
    $niz = array("srbija"=>"beograd", "francuska"=>"pariz",
"engleska"=>"london", "usa"=>"vasington");
    $x=array_flip($niz);
    print_r($x);

?>
```

Pretvranje niza u string implode()

```
<?php  
$a= array(1,2,3,4,5);  
$b=implode(",",$a);  
echo "$b<br>";  
echo gettype($b);  
  
?>
```



Pretvaranje stringa u niz

```
<?php  
$a= "1;2;3;4;5";  
$b=explode(";", $a);  
print_r($b);  
echo "<br>";  
echo gettype($b);  
?>
```

Interpolacija člana niza u string

```
//indeks je broj
$x1 = array("v01.php", "v02.php", "v03.php");
$s1 = "Drugi clan niza je: $x1[1]";
echo $s1;

echo "<br>";
$x2 = array("1"=>"v01.php", "2"=>"v02.php", "3"=>"v03.php");

//indeks je string
// ne radi
//$s2 = "Drugi clan niza je: $x2['2']";
$s2 = "Drugi clan niza je: {$x2["2"]}";
echo $s2;
```

Kada je ključ string pri interpolaciji se moraju koristiti vitičaste zagrade