

Fresher Assessment - 2

11) Find the perfect square values from the given array

@arr = (16, 6, 8, 4, 144)

Output:

(16, 4, 144)

12) Remove the character in a given values using the key as index

%names = (3 => 'Apple', 5 => 'Water Melon', 10 => 'Orange', 2 => 'Fig')

Output:

(Appe, WaterMelon, Orange, Fi)

13) Get two values from the user (Character & Index) and then replace the particular character in given index of a text

\$text = 'Gavs Technologies'

Input: X 5

Output: Gavs Xechnologies

14) Transpose the given matrix

```
$arr1 = [  
    [1,2,3,4],  
    [5,6,7,8],  
    [1,2,3,4],  
    [5,6,7,8]  
]
```

Output:

```
[  
    [1,5,1,5],  
    [2,6,2,6],  
    [3,7,3,7],  
    [4,8,4,8]  
]
```

15) Find compound interest

Formula:

Compound Interest = $P(1 + R/100)^T$

Where,

P is principle amount

R is the rate and

T is the time span

Input:

Principle (amount): 1200

Time: 2

Rate: 5.4

Output:

Compound Interest = 1333.099243 (Also perform round operation => CI is 1333)

16) Given a array, write a Perl program to swap first and last element of the array.

Examples:

Input: (12, 35, 9, 56, 24)

Output: (24, 35, 9, 56, 12)

Input: (1, 2, 3)

Output: (3, 2, 1)

17) Count the occurrence of each word in a array and construct as hash

@arr = ('sun', 'mon', 'tue', 'sun', 'mon', 'tue', 'mon', 'tue', 'thu')

Output:

('sun'=>2, 'mon'=>3, 'tue'=>3, 'thu'=>1)

18) Given two arrays, sort the values of one array using the second array.

Examples:

Input:

@array1 = ("a", "b", "c", "d", "e", "f", "g", "h", "i")

@array2 = (0, 1, 1, 0, 1, 2, 2, 0, 1)

Output:

('a', 'd', 'h', 'b', 'c', 'e', 'i', 'f', 'g')

Input:

@array1 = ("g", "e", "e", "k", "s", "f", "o", "r", "g", "e", "e", "k", "s")

@array2 = (0, 1, 1, 0, 1, 2, 2, 0, 1)

Output:

('g', 'k', 'r', 'e', 'e', 'g', 's', 'f', 'o')

19) Given two sentences as strings A and B. The task is to return a array of all uncommon words. A word is uncommon if it appears exactly once in any one of the sentences, and does not appear in the other sentence.

Examples:

Input:

\$A = "Internet"

\$B = "Learning from Internet"

Output:

('Learning', 'from')

Input:

\$A = "apple banana mango"

\$B = "banana fruits mango"

Output:

('apple', 'fruits')

20) Given a long integer, we need to find if the difference between sum of odd digits and sum of even digits is 0 or not. The indexes start from zero (0 index is for leftmost digit).

Examples:

Input: 1212112

Output: Yes

Explanation:-

the odd position element is $2+2+1=5$

the even position element is $1+1+1+2=5$

the difference is $5-5=0$.so print yes.

Input: 12345

Output: No

Explanation:-

the odd position element is $1+3+5=9$

the even position element is $2+4=6$

the difference is $9-6=3$ not equal to zero. So print no.