 Find the largest element in an array without using array methods like Math.max() or .sort().

 Merge two arrays without duplicates, without using array methods like Set or .concat().

 Find the intersection of two arrays without using .filter() or .includes().

 Find the union of two arrays without using array methods.

 Remove all duplicate elements from an array without using .filter(), .reduce(), or Set.

 Find the second largest number in an array without using array methods.

 Rotate an array k times to the right without using array methods.

 Reverse an array in place without using .reverse().

 Check if two arrays contain the same elements (ignoring order).

 Flatten a multi-dimensional array without using .flat().

 Check if two objects are equal in terms of properties and values.

 Convert an object into an array of key-value pairs without using Object.entries().

 Merge two objects without using Object.assign() or spread syntax.

 Count the occurrences of each key in an array of objects.

 Find the keys and values from an object where the value is greater than a certain number.

 Remove a property from an object without using delete.

 Create an object from two arrays: one for keys and one for values.

 Find all keys in an object where the values are arrays.

 Create a deep copy of an object without using JSON.stringify() or libraries.

 Count the total number of properties in a nested object.

1. **Count how many numbers are in the object values**
   * Write a function that counts how many numeric values exist in the object, including those inside arrays.

Example object:

javascript

Copy code

const obj = {

"a": [1, 2, 3],

"b": 1,

"c": 5,

"d": [10, 20]

};

Expected Output:

makefile

Copy code

Count: 7

1. **Find the largest number in the object**
   * Write a function to find the largest number from both individual numbers and arrays inside an object.

Example object:

javascript

Copy code

const obj = {

"a": [1, 22, 3],

"b": 1,

"c": 5,

"d": [10, 20]

};

Expected Output:

makefile

Copy code

Largest: 22

1. **Count total elements in the object**
   * Write a function that counts the total number of elements (both numbers and arrays) in an object.

Example object:

javascript

Copy code

const obj = {

"a": [1, 2, 3],

"b": 1,

"c": 5,

"d": [10, 20]

};

Expected Output:

mathematica

Copy code

Total Elements: 7

1. **Multiply all values by 2**
   * Write a function that multiplies all numeric values (including array elements) by 2 in the given object.

Example object:

javascript

Copy code

const obj = {

"a": [1, 2, 3],

"b": 1,

"c": 5,

"d": [10, 20]

};

Expected Output (transformed object):

css

Copy code

{

"a": [2, 4, 6],

"b": 2,

"c": 10,

"d": [20, 40]

}

1. **Find the sum of values only for keys starting with 'a'**
   * Write a function that sums up values only from object keys that start with the letter 'a'.

Example object:

javascript

Copy code

const obj = {

"a": [1, 2, 3],

"b": 1,

"apple": 10,

"apricot": [5, 5]

};

Expected Output:

Sum of values from keys starting with 'a': 26