



Coding Questions for Objects

.js



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1. Check if an Object is Empty



```
function isEmpty(obj) {  
    return Object.keys(obj).length === 0;  
}  
  
console.log(isEmpty({})); // Output: true  
console.log(isEmpty({a: 1})); // Output: false
```



2. Merge Two Objects



```
function mergeObjects(obj1, obj2) {  
  return { ...obj1, ...obj2 };  
}  
  
console.log(mergeObjects({a: 1, b: 2}, {b: 3, c: 4}));  
// Output: {a: 1, b: 3, c: 4}
```



3. Clone an Object (Shallow Copy)



```
function cloneObject(obj) {  
    return { ...obj };  
}  
  
const original = {a: 1, b: 2};  
const copy = cloneObject(original);  
console.log(copy); // Output: {a: 1, b: 2}  
console.log(copy === original); // Output: false
```



4. Deep Clone an Object (Deep Copy)



```
function deepClone(obj) {  
    return JSON.parse(JSON.stringify(obj));  
}  
  
const original = {a: 1, b: {c: 2}};  
const copy = deepClone(original);  
  
console.log(copy); // Output: {a: 1, b: {c: 2}}  
console.log(copy.b === original.b); // Output: false
```



5. Count Properties in an Object



```
function countProperties(obj) {  
    return Object.keys(obj).length;  
}  
  
console.log(countProperties({a: 1, b: 2, c: 3}));  
// Output: 3
```



6. Get Keys and Values as Separate Arrays

```
const person = {
  name: 'Alice',
  age: 25,
  city: 'New York'
};

// Get keys
const keys = Object.keys(person);

// Get values
const values = Object.values(person);

console.log(keys); // Output: ['name', 'age', 'city']
console.log(values); // Output: ['Alice', 25, 'New York']
```



7. Check if an Object Has a Property



```
function hasProperty(obj, key) {  
    return obj.hasOwnProperty(key);  
}  
  
console.log(hasProperty({a: 1, b: 2}, 'a')); //  
Output: true  
  
console.log(hasProperty({a: 1, b: 2}, 'c')); //  
Output: false
```




8. Convert Object to Array of [Key, Value] Pairs



```
function objectToPairs(obj) {  
    return Object.entries(obj);  
}  
  
console.log(objectToPairs({a: 1, b: 2, c: 3}));  
// Output: [['a', 1], ['b', 2], ['c', 3]]
```



9. Get All Methods of an Object

```
function getMethods(obj) {  
  return Object.keys(obj).filter(key => typeof obj[key] === 'function');  
}  
  
const obj = {  
  a: 1,  
  b: 2,  
  foo() { return 'foo'; },  
  bar() { return 'bar'; }  
};  
  
console.log(getMethods(obj)); // Output: ['foo', 'bar']
```