## 4.Object Factory

Create a function that can compose objects by copying functions from a given library of functions. You will receive **two** **parameters** – a **library** of functions as an associative array (object) and an **array of orders**, represented as objects**.** You must **return** a new array – the fulfilled orders.

The **first parameter** will be an object where each property is a **function**. You will use this **library of functions** to compose new objects.

The **second parameter** is an **array of orders**. Each order is an **object** with the following shape:

{

template: [Object],

parts: string[]

}

A **template** is an object that must be **copied**. The **parts array** contains the names of **required functions** as **strings**.

You must **create and return a new array**, by fulfilling all orders from the **orders array**. To fulfill an order, create a copy of the object’s template and then add to it all functions, listed in the **parts array** of the order, by taking them from the **function library** (the first parameter to your solution).

### Input

You will receive two parameters:

* library – an object
* orders – an array of objects

### Output

Your solution must **return an array** of objects.

### Example

|  |
| --- |
| **Input** |
| const library = {  print: function () {  console.log(`${this.name} is printing a page`);  },  scan: function () {  console.log(`${this.name} is scanning a document`);  },  play: function (artist, track) {  console.log(`${this.name} is playing '${track}' by ${artist}`);  },  };  const orders = [  {  template: { name: 'ACME Printer'},  parts: ['print']  },  {  template: { name: 'Initech Scanner'},  parts: ['scan']  },  {  template: { name: 'ComTron Copier'},  parts: ['scan', 'print']  },  {  template: { name: 'BoomBox Stereo'},  parts: ['play']  }  ];  const products = factory(library, orders);  console.log(products); |
| **Output** |
| [  {  name: 'ACME Printer',  print: [Function: print]  },  {  name: 'Initech Scanner',  scan: [Function: scan]  },  {  name: 'ComTron Copier',  scan: [Function: scan],  print: [Function: print]  },  {  name: 'BoomBox Stereo',  play: [Function: play]  }  ] |