



```

function forEach(elems, action) {
  for(var i = 0; i < elems.length; i++) {
    action(elems[i]);
  }
}

function map(elems, transformFn) {
  let result = [];
  forEach(elems, function (elem) {
    result.push(transformFn(elem));
  });
  return result; ✓✓
}

let products = [
  {"name": "iPhone 16", "price": 89999.00, "category": "mobile"}, 
  {"name": "Sony Bravia", "price": 235000.00, "category": "tv"}, 
  {"name": "Wacom", "price": 5200.00, "category": "computer"}, 
  {"name": "OnePlus 15", "price": 75000.00, "category": "mobile"}, 
  {"name": "LG OLED", "price": 125000.00, "category": "tv"}, 
  {"name": "Logitech Mouse", "price": 789.00, "category": "computer"}
];

```

`var names = map(products, function(p) {  
 return p.name;  
});  
  
console.log(names); // iPhone 16, "price":  
// Sony Bravia, "price": 235000.00, "category": "tv",  
// Wacom, "price": 5200.00, "category": "computer",  
// OnePlus 15, "price": 75000.00, "category": "mobile",  
// LG OLED, "price": 125000.00, "category": "tv",  
// Logitech Mouse, "price": 789.00, "category": "computer"`

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function toCard(product) {
  return `<div class="card">
    <div class="card-header">
      ${product.name}
    </div>
    <div class="card-body">
      ${product.price}
    </div>
  </div>`;
}

var cards = map(products, toCard);

```

Product → Div

+

RP

5  
m 0

Closure

10  
m 0

Closure

```

function adder(no) {
  return function(arg) {
    return no + arg;
  }
}

var fiveAdder = adder(5);
var tenAdder = adder(10);

console.log(fiveAdder(2)); // 7
console.log(fiveAdder(4)); // 9

```

> fiveAdder.prototype  
 ↳ > O [Object]   
 ↳ > constructors: f (arg)  
 ↳ > arguments: null  
 ↳ > caller: null  
 ↳ > length: 1  
 ↳ > name: ""  
 ↳ > prototype: {}  
 ↳ > [FunctionLocation]: VM1729:2  
 ↳ > [IPrototype]: f ()  
 ↳ > [Scopes]: Scopes[1]  
 ↳ > 0: Closure (adder) (no: 5) ✓✓  
 ↳ > 1: Script (num: Array[7], products: Array[6], mobiles: Array[2], events: Array[4])

