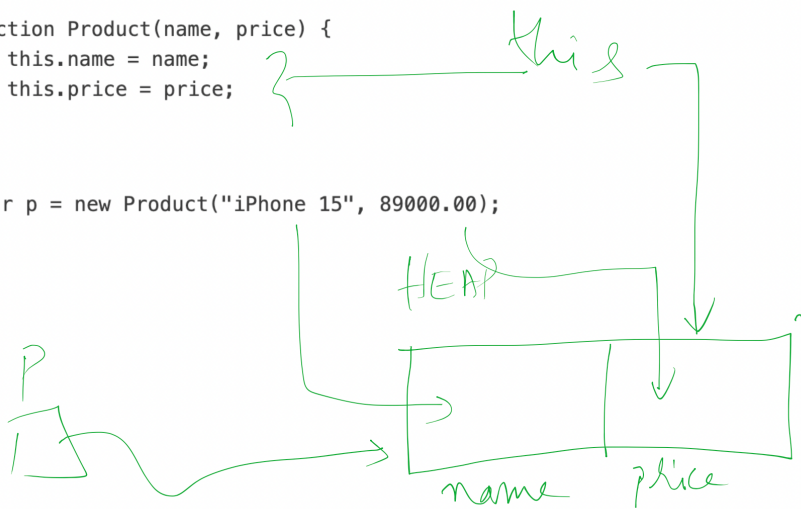


```
function Product(name, price) {
  this.name = name;
  this.price = price;
}
```

```
var p = new Product("iPhone 15", 89000.00);
```



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

function filter(elems, predicate) {
  let result = [];
  forEach(elems, function (elem) {
    if(predicate(elem)) {
      result.push(elem);
    }
  });
  return result;
}
```

```
let products = [
  {name: "iPhone 16", "price": 89000.00, "category": "mobile"},
  {name: "Sony Bravia", "price": 235000.00, "category": "tv"},
  {name: "Maccom", "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"}
];
```

```
let mobiles = filter(products, function isMobile(p) {
  return p.category === 'mobile'
});
```

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

function filter(elems, predicate) {
  let result = [];
  forEach(elems, function (elem) {
    if(predicate(elem)) {
      result.push(elem);
    }
  });
  return result;
}
```

```
let nums = [5, 2, 6, 9, 8, 12, 3];
```

```
let evens = filter(nums, function isEven(e) {
  return e % 2 === 0;
});
```

5 | 2 | 6 | 9 | 8  
2 | 3

2  
6  
8  
12

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

```
let products = [
  {name: "iPhone 16", "price": 89999.00, "category": "mobile"},
  {name: "Sony Bravia", "price": 235000.00, "category": "tv"},
  {name: "Macom", "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;
});
```

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

```
console.log(names);
```

```
["iPhone 16", "price": 89999.00, "category": "mobile",
"Sony Bravia", "price": 235000.00, "category": "tv",
"Macom", "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"]
```

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

```
let products = [
  {name: "iPhone 16", "price": 89999.00, "category": "mobile"},
  {name: "Sony Bravia", "price": 235000.00, "category": "tv"},
  {name: "Macom", "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"}
];
```

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

```
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 to Div