

# Front end development

## Objects - Star - Candy Store

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The following exercise contains the following subjects:

- Javascript

### Question

Here is a candyStore object:

```
var candyStore = {  
  candies: [  
    {  
      name: "mint gum",  
      id: "as12f",  
      price: 2,  
      amount: 2  
    },  
    {  
      name: "twix",  
      id: "5hd7y",  
      price: 5,  
      amount: 4  
    },  
  ],  
  cashRegister: 200  
}
```

1. Implement the following `getCandy` function:

The function should return the candy element with the specified id.

```
function getCandy(candyStore, id) {  
  //your code  
}
```

2. Implement the following `getPrice` function:

The function should return the price (number) of the candy with the specified id.

```
function getPrice(candyStore, id) {  
  //your code  
}
```

continue on the next page!

3. Implement the following `addCandy` function:

The function should add a new candy to the candy list in `candyStore` with a default amount of 1.

The function will not return anything.

```
function addCandy(candyStore, id, name, price){
    //your code
}
```

4. Implement the following `buy` function:

The function should add the candy price to the cashRegister, and decrease the amount property of the relevant candy.

```
function buy(candyStore, id){
    //your code
}
```

5. test your code. run the following code, and make sure you received the correct result with no errors:

```
function test_equal(actual, expected, msg) {
    if (Array.isArray(expected)) {
        for (var i = 0; i < expected.length; i++){
            test_equal(actual[i], expected[i], "item in index " + i);
        }
    } else if (typeof expected === "object"){
        for (prop in expected){
            test_equal(actual[prop], expected[prop]);
        }
    } else {
        if (actual !== expected) {
            console.log(`Error testing ${msg} || '. expected: ${expected}, got ${actual}`)
        }
    }
}
```

continue on the next page!

```
test_equal(getCandy(candyStore, "as12f"), {name: "mint gum",id: "as12f",price: 2,amount: 2});
test_equal(getPrice(candyStore, "5hd7y"), 5);
buy(candyStore, "as12f");
test_equal(getCandy(candyStore, "as12f").amount, 1);
test_equal(candyStore.cashRegister, 202);
buy(candyStore, "as12f");
buy(candyStore, "as12f");
test_equal(getCandy(candyStore, "as12f").amount, 0);
test_equal(candyStore.cashRegister, 204);
addCandy(candyStore, "hfy46", "Bamba", 4);
test_equal(candyStore.candies.length, 3);
buy(candyStore, "hfy46");
test_equal(getCandy(candyStore, "hfy46").amount, 0);
test_equal(candyStore.cashRegister, 208);
```