

1. Calculate price for merchandise.

```
1 // Create a function that calculates the cost of an order
2 // of strawberries. Given:
3 // (a): $3.00/lb for the first 5 lbs
4 // (b): $2.00/lb after the first 5 lbs
5
6 var strawberry_price = function (pounds){
7     var price = 0;
8     if (pounds <=5){
9         price += 3 * pounds;
10    }else{
11        price = 15 + (2 * (pounds-5));
12        // price = (3*pounds)-(1*(pounds-5));
13    }
14
15    return price;
16 }
17
18 console.log("3 lbs: " + strawberry_price(3));
19 console.log("10 lbs: " + strawberry_price(10));
```

```
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```

```
3 lbs: 9
10 lbs: 25
```

Or you can do it in this way:

```
1 // Create a function that calculates the cost of an order
2 // of strawberries. Given:
3 // (a): $3.00/lb for the first 5 lbs
4 // (b): $2.00/lb after the first 5 lbs
5
6 var strawberry_price = function (pounds){
7     var price = 0;
8
9     price += 3 * pounds;
10
11    if (pounds >=5){
12        price -= 1 * (pounds -5);
13    }
14
15    return price;
16 }
17
18 console.log("3 lbs: " + strawberry_price(3));
19 console.log("10 lbs: " + strawberry_price(10));
```

2. Drop the lowest and calculate the average score.



```
1 // Suppose we drop our lowest grade and we average all other
  grades.
2 //
3 //Example:
4 // [100, 80, 90, 100]
5 // Sum (w/lowest drop):290
6 // Average: 290 / 3 ~= 96.6
7
8 var avg = function (arr){
9     var lowest = arr[0];
10    var sum = 0;
11
12    for (var i = 0; i < arr.length; i++){
13        var grade = arr[i];
14        sum += grade;
15
16        if (grade < lowest){
17            lowest = grade;
18        }
19    }
20
21    return (sum - lowest)/(arr.length - 1);
22 };
23
24 var arr = [100, 80, 90, 100];
25 console.log("Average is: " + avg(arr));
```

```
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Average is: 96.66666666666667
```

3. Find the lowest price and return the name of the stock

```
1 var find_cheapest = function(data){
2     var cheapest = data[0];
3
4     for (var i = 0; i < data.length; i++){
5         var obj = data[i];
6         //e.g. obj = {stock:"MSFT", price:48.12}
7
8         if (obj.price < cheapest.price){
9             cheapest = obj;
10        }
11    }
12
13    return cheapest.stock;
14 };
15
16 var data = [
17     {stock:"MSFT", price:48.12},
18     {stock:"GOOG", price:528.12}
19 ];
20
21 console.log("The cheapest is: " + find_cheapest(data));
```

```
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The cheapest is: MSFT
```