

I clicker question:

`var s = "Hello!";`

1. `var len = s.length;`

A.0 B.1 C.4 **D.6**

2. `var c = s[1]`

A."H" **B. "e"** C. "l" D. "o"

`var a = [[52,4], [44,0], [14,48], [27,25]]`

1. `var len = a.length;`

A.0 B.3 **C.4** D.5

2. `var elem = a[1];`

A.[52,3] **B.[44,0]** C. [52]

Puzzle #1:

```
var cart = {
  {item:"light coat",price:100.00},
  {item:"leather gloves",price:50.00},
  {item:"cs105 sticker",price:0.99},
}
```

The data type of cart is : object

Puzzle #2:

```
1 var cart = [];
```

Puzzle #3:

```
1 var cart = [];  
2  
3 var addItem = function(item,price){  
4     var object = {  
5         item:item,  
6         price:price  
7     };  
8     cart.push(object);  
9 }
```

Puzzle #4:

```
1 var cart = {  
2     {item:"light coat",price:100.00},  
3     {item:"leather gloves",price:50.00},  
4     {item:"cs105 sticker",price:0.99},  
5 }  
6 |  
7 for (var i = 0;i<cart.length;i++){  
8     var price = cart[i].price;  
9     if (price>500){  
10        price=price*0.2;  
11    }  
12    else if (price>25){  
13        price=price*0.8;  
14    }  
15    cart[i].discountPrice = price;  
16 }
```

Puzzle #5:

(See lecture notes)

Puzzle #6:

```
1 var cart = {
2   {item:"light coat",price:100.00},
3   {item:"leather gloves",price:50.00},
4   {item:"cs105 sticker",price:0.99},
5 }
6
7 var calcTotal = function(cart){
8   //Calculate the total;
9   var total = 0;
10  //Check the total is enough for a discount;
11  //...if so, apply the discount
12  for (var i = 0;i<cart.length;i++){
13    total = total+cart[i].discountPrice;
14  };
15  if (total>500){
16    total = total*0.2;
17  }
18  else if(total>25){
19    total = total*0.8;
20  }
21  //Return the total
22  return total;
23 }
```