



I-clicker question:

```
var s="Hello!";  
var len = s.length;
```

A.0

B.1

C.4

**D.6**

Answer) 6

```
var c = s[1];
```

A."H"

**B. "e"**

C. "l"

D. "o"

Answer) "e"

```
var a = [[52,3],[44,0],[14,48],[27,25]];
```

```
var len = a.length;
```

A.0

B.3

**C.4**

D.5

Answer) 4

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

A.[52,3]

**B.[44,0]**

C. [52]

Answer) [44,0]

## **CS 105 Shopping cart**

```
// Define an empty cart.
var cart = [];
// If an item is over 3$, 10% discount
// If the cart is over $150, 20% discount to cart
var addItem = function (itemName, itemPrice) {
    var obj = {
        item: itemName;,
        price: itemPrice
    };
    cart.push( obj);
};
```

Now cart has 3 items.

We want to add discount price to every item.

```
//Loop through the array
```

```
for (var i=0; i<cart.length; i++) {
    var item = cart[i];

    //For each item, check if price>3
    //if so, apply a 10% discount
    var newPrice = item.price;
    if (item.price >3) {
        newPrice = newPrice*0.9;
    }
    //Set .discountPrice to the price
    item.discountPrice = newPrice;
    alert(JSON.stringify(Cart));
}
```

```
var total = function (cart) {
    var sum = 0;
    for (var i=0; i<cart.length; i++) {
        var item = cart[i];
        sum = sum + item.discountPrice;
    }
    if (sum > 150) {
        sum = sum * 0.8;
    }
    return sum;
}
```

};



Puzzle # 5

Puzzle # 6

Puzzle # 7

Puzzle # 8

(See the Completed Lecture Handout)