

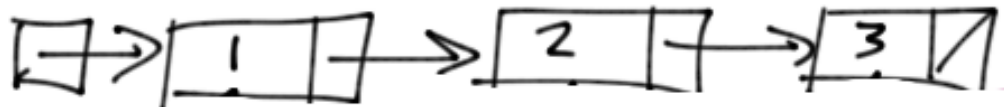
Today - Lecture 16 - CS162

- 1) Topic # 5 on Recursion
- 2) Write Functions using both iteration and recursion
- 3) Practice!

Announcements:

- * Get familiar with
 - a) Linear Linked Lists
 - b) Recursion
 - c) Pointers
 - d) Dynamic Memory
- * Plan ahead for finals!

```
void display(node * head) //recursive!  
{  
    //Question 1: What should STOP the process  
    if (head == NULL) return;  
  
    cout << head->data << endl;  
    display(head->next);  
}
```



```
void display(node * head) //recursive!
```

```
{
```

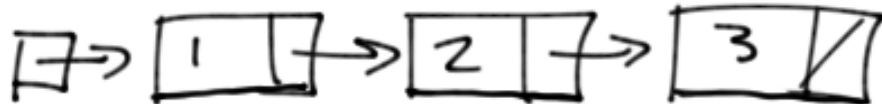
```
    //Question 1: What should STOP the process
```

```
    if (head == NULL) return;
```

```
    display(head->next);
```

```
    cout << head->data << endl;
```

```
}
```



```
//Recursively  
void add_at_end(node * & head, char * name)  
{  
    if (!head)  
    {  
        head = new node;  
        //save the data  
        head->next = NULL;  
    }  
    else add_at_end(head->next,name);  
}
```

