

## Linear Linked List

Templated, will hold 2-3 trees

```
public:
    insert(data_type & insert)
    remove(data_type & find_and_remove)
    get(data_type & find)
    ...
    virtual operator[](const int); // calls get
    virtual operator+=(const data_type);
private:
    Ill_node<data_type> head
```

## 2 - 3 tree

Templated, will hold tasks

```
public:
    insert(data_type & insert)
    remove(data_type & find_and_remove)
    get(data_type & find)
    ...
    virtual operator[](const int); // calls get
    virtual operator+=(const data_type);
private:
    two_three_node<data_type> head
```

## Study\_Guide

Derives from Ill<two\_three<task>>

```
public:
    // Adds the task to the correct tree
    based on its category
    operator+=(const task);
    // Display all the tasks by category
    friend ostream & <<(c ostr &, c s_g &);
```

## Task

Hold information on what to study + priority

```
public:
    // Display the task
    friend ostream & <<(c ostr &, c task &);
    // Take in a task
    friend istream & >>(c istr &, c task &);
    // The long list of comparison operators
private:
    // All the data we need
    Int priority;
    Char * category;
    Char * description;
    Bool completed;
```