

## Object Oriented Programming Lab Manual

**Topics to be covered:** Inheritance, Composition, Aggregation and Association

**Deadline:** Complete submission on 20<sup>th</sup> December 2017 (9:00 pm)

### Composition, Aggregation and Association:

Theory and code has already been discussed in class. Please see following link for details.

<http://www.learncpp.com/cpp-tutorial/102-composition/>

<http://www.learncpp.com/cpp-tutorial/103-aggregation/>

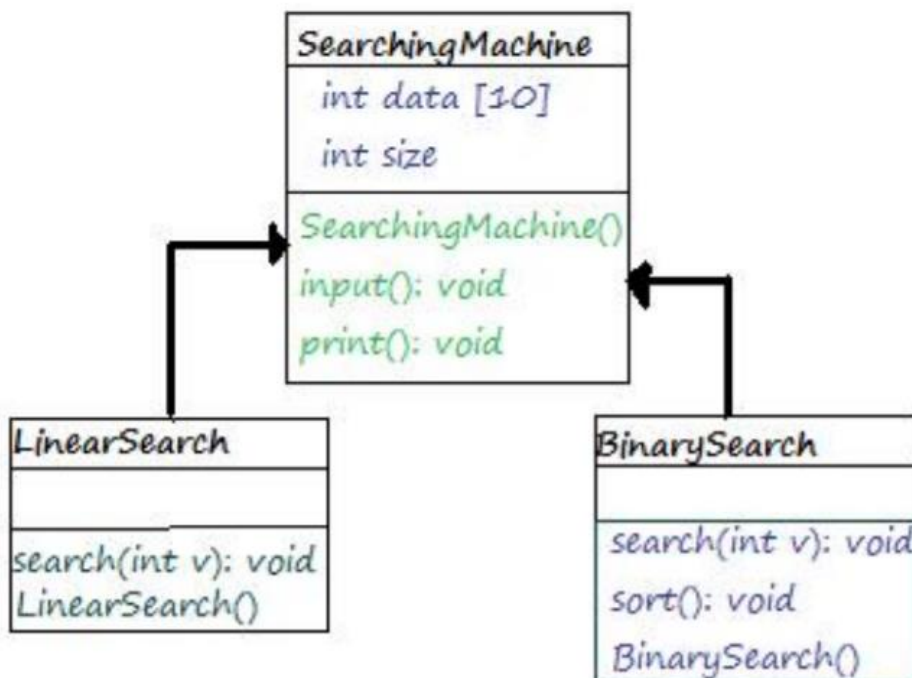
<http://www.learncpp.com/cpp-tutorial/104-association/>

### Inheritance:


You can also consider this link for details.


<http://www.learncpp.com/cpp-tutorial/111-introduction-to-inheritance/>

### Question 1: Practice question on Inheritance:



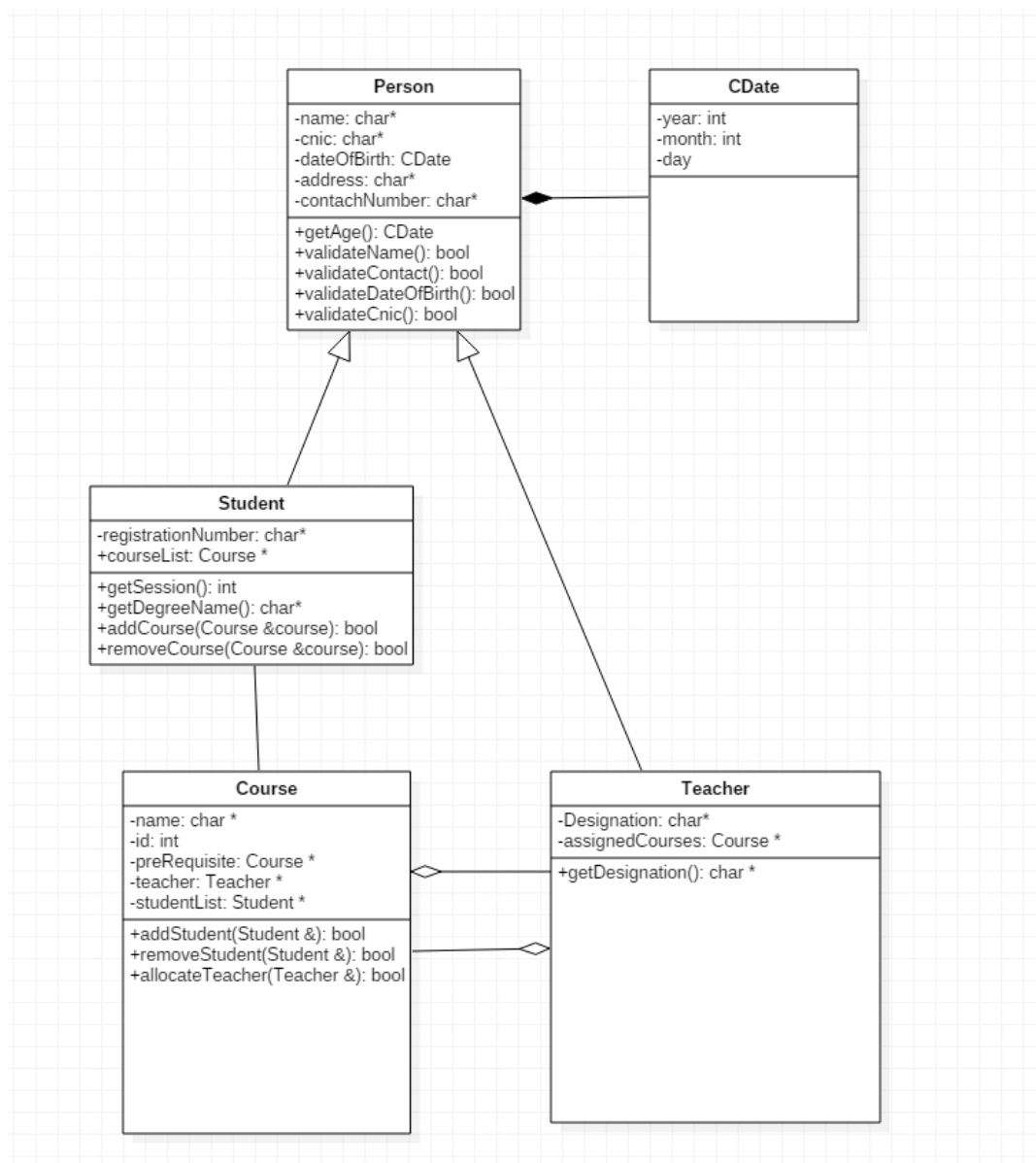
**Question 2: Combine question on composition, aggregation, association and inheritance:**

 implies composition relation (coloured arrow)

 implies inheritance (colourless arrow)

 implies association relation (No arrows)

 implies aggregation relation (Empty diamond)



**Note:** All getters and setters are obvious.