

1/ State whether each of the following is true or false. If false, explain why.

- (1) Base-class constructors are not inherited by derived classes.

Ans : True · 建構子跟解構子不會被繼承

- (2) An is-a relationship is implemented via composition.

Ans : False

Composition 是一個 has – a 的關係

Inheritance 才是一個 is – a 的關係

- (3) A Student class has an is-a relationship with the Faculty and Course classes.

Ans : False, is has – a relation

- (4) Private members of a private base class are inaccessible to the derived class.

Ans : True · 會被繼承 · 但是子類別不能存取

- (5) A base class' s protected members can be accessed in the base-class definition, in derived-class definitions and in friends of the base class and its derived classes.

Ans : True

2/ Draw an inheritance hierarchy for students at a university.

