CS 241

Time
  int hour
  int minute

public / private / protected → only accessible inside the class or inside subclasses

public → accessible from outside the class (Interface)

private → only accessible inside the class. (Implementation)
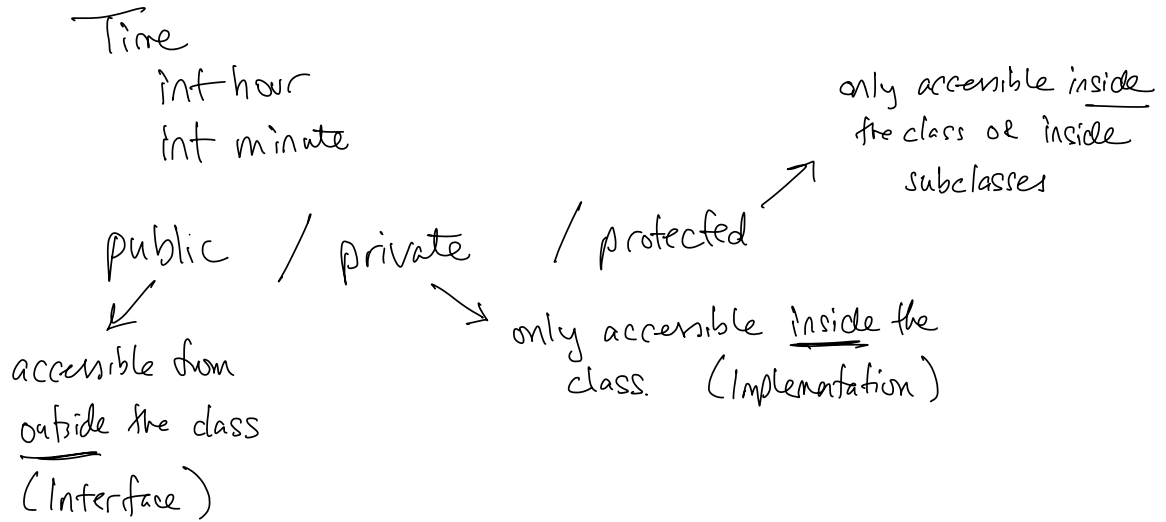
Default — make instance vars private
         make methods public

Constructors — special methods called to initialize an object of a class.

  default constructor — no args

Keyword this

getter — function/method to return an instance variable from a class.

Immutable — instance vars never change except in constructor

setter — method to set an instance variable in a class.

Testing objects for equality in Java

== → only used for primitives
(int, long, boolean, float, char ...)

```
String s1 = "cs241";
String s2 = "cs241";
if (s1 == s2)   ✗ BAD
```

.equals

```
if (s1.equals(s2))  .... OK
```

== for objects tests memory locations

var instanceof class → returns true 為 if
var is an instance of class

Interfaces

↳ "class" with only abstract methods
↓
no body / no code

Animal speak() → abstract

Dog   Cat
speak()   speak()