- Pay extended 1 last day.

Ex. Person 1

```
Person a;
```

\[ a = \text{new Person();} \]

Member selection operator:

- (dot)
Ex. Person 2

member method (static)

Recall: to call a static method do

NameOfClass::NameOfClass(...args...)

To call an instance method do

InstanceOfClass::NameOfClass(...args...)

Reference variable that points to an object of the class.
The 'this' reference: "this" when used inside a class method refers to the instance of the class on which the method is being called, i.e. the implicit 1st argument or 'self' of the class.
Every class in Java has a special method called a constructor, whose name is the same as name of the class. It has no return type, not even void. It is always called with the new operator.

General declaration & allocation start:

```java
class myClass x = new myClass(...);
```

↑ name at ref. var.
↑ class var.

```java
Construction of myClass class.
```
Result:

```
x
myClass Object
```

Examples:

```
Scanner sc = new Scanner(System.in);
```

```
Scanner sc = new Scanner(new File("blah").
```
How to write a constructor:

Ex:

class myClass {
    int happy;
    int sad;

    myClass(int a, int b) {
        happy = a;
        sad = b;
    }

    int getHappy() {
        return happy;
    }
}