**OPERATOR OVERLOADING**

a + b 🡪 Compiler calls “operator+” function and send a,b (operator+(a,b))

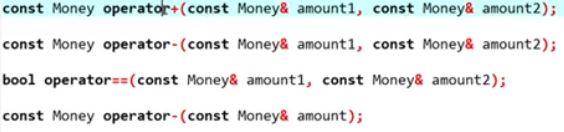
OR

🡪 a.operator+(b);

You can implement either first or second one. Of course for 2nd one to work, you need to go to the definition of class of a and be sure that operator+ is member function.

**const** Money **operator**+(**const** Money& amount1, **const** Money& amount2);

operator+ is a global functions, it takes 2 Money (a class) parameters which are constant references (to make it more efficient). And money object that I returned will be const so user won’t be able to modify whatever I will return.



I can overload - operator twice as you see but be careful that both of them have different signature.

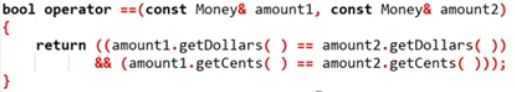
**const** Money **operator**+(**const** Money& amount1, **const** Money& amount2)





We are using unary - operator in the definition of binary - operator, 4th one in the first code ss in the first page.

You can use both returns, they are same.





myAmount + yourAmount + moreMoney 🡪 This will work bc first myAmount and yourAmount will be

handled and then result of them and moreMoney will be

Three money objects.

handled. It’s like 2 function calls.

Same as this 🡪 operator+(operator+(myAmount, yourAmount), moreMoney)

YOU CANNOT DO THIS !!! 🡪 int operator+(int, int); (already implemented, same signature)

ALWAYS OVERLOAD WITH SIMILAR ACTIONS !!!

**Constructors Returning Objects**

* Constructor is not a void function, we think that way.
* Constructor is special function with special properties.
* Recall return statement in “+” overload for money type:
  + return Money(finalDollars, finalCents);
    - Constructor makes an anonymous object
    - The anonymous object is returned

**What to do with Non-const Object?**

* Can call member functions.
* We could invoke member functions on object returned by expression m1+m2:
  + (m1+m2).output();
    - Legal / doesn’t change anything
  + (m1+m2).input();
    - Problem / legal (if it is not const) but modifies the object
* So we define the return object as const

*//JAVA doesn’t have operator overloading.*

**Overloading as Member Functions**

* Previous examples : standalone functions
  + Defined outside a class
* Can overload as “member operator”
  + Considered “member function” like others
* When operator is member functions:
  + Only 1 parameter, not 2
  + Calling object serves as 1st parameter

![Text

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What is () operator?

Money m(1, 20);

int k = m(10, 2, 2.0);

int i = m();



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1. if (yourAmount == myAmount)

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**Member Operator in Action**

* Money cost(1, 50), tax(0, 15), total;
* total = cost + tax;
  + If “+” overloaded as member operator:
    - Variable/object cost is calling object
    - Object tax is single argument
  + Think of as: total = cost.operator+(tax);
* Declaration of “+” in class definition:
  + const Money operator+(const Money& amont);
  + Notice only 1 argument.

Normally we don’t like global functions but sometimes we have to use them.

For example if we want to overload “<<” operator (cout << m1), what do we do?

cout’s class is ostream. ostream class doesn’t belong to me so I am not allowed to do it and I may not have the source code. So I need to overload “<<” operator as global function. (cout.operator<<(m1);)

*You cannot change operator’s associvity and precedence.*

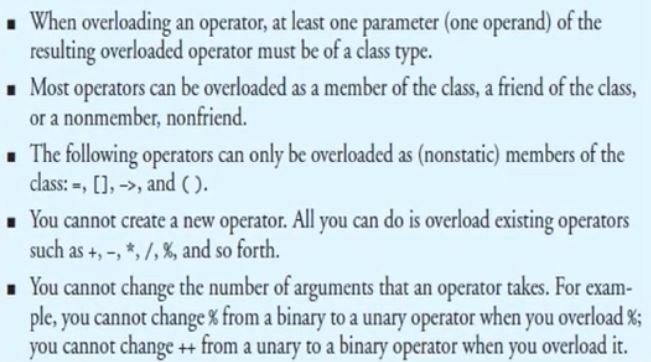
**Overloading Function Application ()**

* Function call operator, ()
  + *Must be overloaded as member function*
  + *You cannot overload function call operator globally*
  + Allows use of class object like a function
  + Can overload for all possible numbers of arguments
* Example:
  + Aclass anObject;
  + anObject(42);
    - If () overloaded 🡪 calls overload
    - int function()(int i) const;

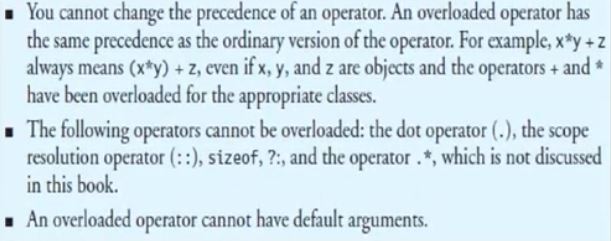
**Other Overloads**

* &&, ||, and comma operator
  + Predefined versions work for bool types
  + Recall: use “short-circuit evaluation”
  + When overloaded no longer uses short-circuit
    - Uses “complete evaluation instead
    - Contrary to expectations
* Generally should not overload these operators

RULES ON OVERLOADING OPERATORS



You can’t do “operator+(int, int);”



**const** Money **operator**+(**const** Money& = Money()) **const**; 🡪 You cant do this.

**FRIENDS**

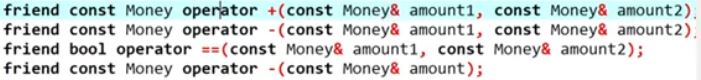
* Nonmember functions
  + Recall: operator overloads as nonmembers
    - They access data through accessor and mutator functions
    - Maybe inefficient (overhead of calls) but smart compilers take care of that
* Friends can directly access private class data
  + No overhead, more efficient
* So: best to make nonmember operator overloads friends

We said we should implement operator (<<) overloading globally.

If I have to implement this globally overloads, maybe they should access my private data too.

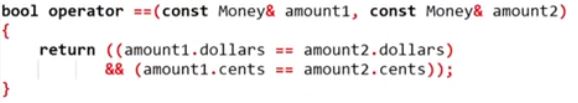
Friend functions free to access private data or functions.

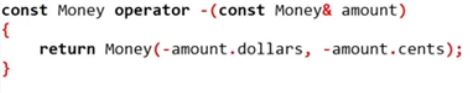
Under public area of class:



They are free to access my private data and functions.

Implementations:





…

Even though these four are global functions, as an object oriented programmer, I consider them as my member functions. I am writing them and I know that they are gonna access my private data.

Same function can be friend of many different classes.

You may declare member function of another class or whole other class as your friend.

**Friend Functions**

* Friend function of a class
  + Not a member function
  + Has direct access to private members
    - Just as member functions do
  + Specified in class definition but they’re not member functions

Friend function uses:

* Operator overloads
  + Most common use of friends
  + Other than operator overloads, don’t use friends
  + Improves efficiency
  + Avoids need to call accessor/mutator member functions
    - Not very agreeable, even if you are member function always use accessor/mutator. But some classes there is no accessor/mutator. So you have to access private data directly.
  + Operator must have access anyway
    - Might as well give full access as friend
* Friends can be any function

Constructors:





**const** Money **operator**+(**const** Money&) **const**;

This will compile and run correctly with just this overload of + operator. You don’t have to overload it as:

**const** Money **operator**+(**int**) **const**;

Compiler says that (m1 = m2 + 1;):

* I am seeing a plus operator here.
* What are the leftside and rightside (parameters)? 🡪 Money and int
* Are there any member operators or global operators that takes a Money and int? 🡪 No
* There is a plus operator in Money class but it takes 2 Money objects.
* Can I make Money out of an int? 🡪 Yes
* How? 🡪 There is a constructor that takes an integer and makes a money out of it. Compiler automatically will use this constructor. It will take integer (1), it will feed it to constructor and make a money object out of it.

So compiler can use single parameter constructors as conversion constructors.

If you do like:

**explicit** Money(**int** dollars);

This won’t be used automatically to conversion from one data type to another.

m1 + 1.20 🡪 still don’t give error, because compiler can convert int to double or vice versa.

If you implemented constructors with one parameters in a way that it tells “int const” or “double const”, when you compile this:

Money m1, m3(23, 10);

(m3+1).output();

(m3+80.20).output();

conversion constructor

You will get:

int const 🡪 comes from “(m3+1).output()”; , because of 1

$24.10

double const 🡪 comes from “(m3+80.20).output()”; , because of 80.20

$103.30

//(1+m3).output(); 🡪 will not compile

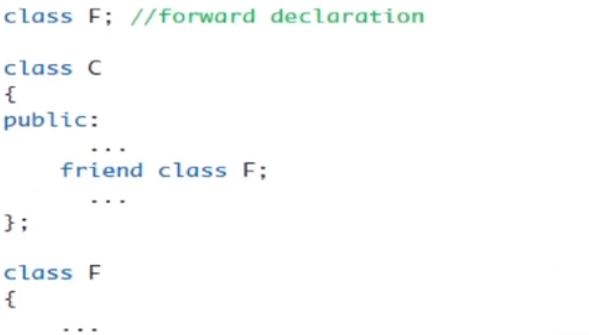
* in int class, obviously you can’t see member + operator that takes a money or there are no constructor that converts money to int.
* For this to work, I need to have a global + operator (friends) that will take 2 money objects. With 2 objects, compiler will try to convert left side or right side of the operator to the money objects.

**Friend Function Purity**

* Friends not pure?
  + “Spirit” of OOP dictates all operators and functions be member functions
  + Many believe friends violate basic OOP principles
* Advantageous?
  + For operators: very
  + Allows automatic type conversion
  + Still encapsulates: friend is in class definition
  + Improves efficiency

**Friend Classes**

* Entire classes can be friends
* Example:
  + class F is friend of class C
    - All class F member functions are friends of C
    - Not reciprocated (karşılık bulma)
    - Friendship granted, not taken!
* Syntax: friend class F
  + Goes inside class definition of “authorizing” class



All the functions (public or private) of class F get the access the private fields of class C.

You can put “friend class F;” in private area.

Friendship is not symmetric.

C is not friend of F. C can’t access private fields of class C.

If somebody becomes your friend, that class can behave like regular member functions.

**REFERENCES**

* Reference defined:
  + Name of a storage location
  + Similar to “pointer”
* Example of stand alone reference:
  + int robert;

int& bob = robert;

* + - bob is reference to storage location of robert
    - Changes made to bob will affect robert, changes made to robert will affect bob
    - Not much sense bc I can already use robert
    - Makes sense to use references in function parameter and function return type
* Reference assignment only done once.
  + When you declare a reference, you have to initialize it.

double& f(double& d){

return d; 🡪 You cannot do “return d+5;” bc this has no place in memory

}

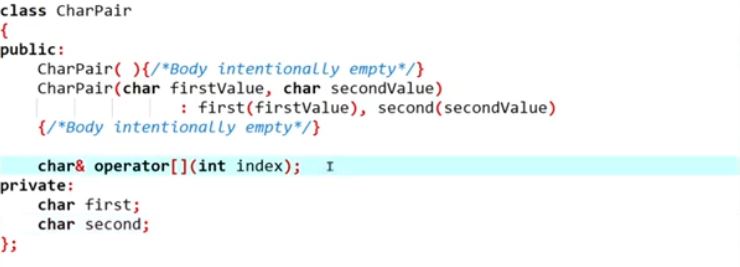
double myd = 10.20;

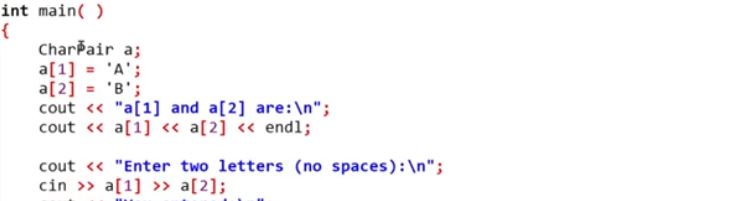
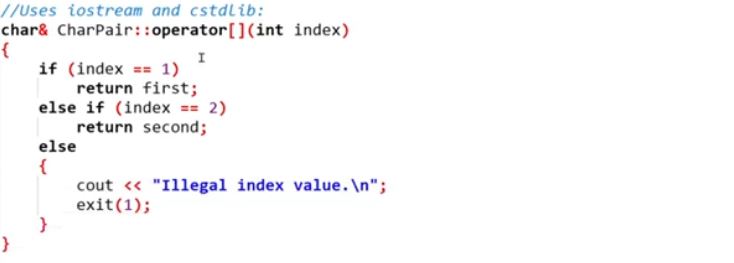
f(myd) = 17.2; 🡪 In fact I am assigning 17.2 to myd

🡪 If function returns just “double“ then this line would give error

I can use reference returning in overloading indexing operator 🡪 m1[0] = 7; (m1: money object)

Function can only be leftside whenever it returns a reference.





Can you do operator[] const bc you are not changing first or second in that function?

You can’t bc you are returning reference to first or second and people can change them.

You cannot return a non-const reference from a const function.

If you want to make your function const, then you have to make return value const : const char& …

But now you can’t make assignments a[1] and a[2] bc they returns const value.

What if I define an object like this: “const CharPair cp(‘q’, ‘r’);” and don’t use const keywords in operator[]?

cout << cp[1];

This will not compile bc cp is const object, index operator is non-const operator.

So you may define operator[] both with const keywords and without const keywords, overload it.



Now you can also make assignments.

Their signatures are different because upper one is const function.

Compiler is smart enough to call the correct signature.

So constness changes the signature.

Implementations of this both function will be the same as above.



a[1] = ‘A’; 🡪 This will call second one.

Where do I get the error?

* You cannot return a non-const reference from a const function.



This will run without any problem.

BUT a[1] = ‘A’; will give an error message.

Second function will be called but it’s returning a const character reference so it can’t be Left-value for the assignment.

Whatever you are returning must be alive after the function is done.

int& f(){

int i;

return i;

}

f() = 17;

f() = 17; 🡪 will compile and run be careful to not to use this kind of things.

17 is assigned to some place that doesn’t make any sense.

int& g(){

int i;

return &i;

}

You use functions that returning a pointer in C with malloc.

**Overloading >> and <<**

* Enables input and output for our objects
  + Similar to other operator overloads
  + New subtleties
* Improves readability
  + Like all operator overloads do
  + Enables:
    - cout << myObject;
    - cin >> myObject;
  + Instead of need for :

myObject.output(); …

You either do:

* operator<<(cout,m1)
* cout.operator<<(m1)

I can’t do second one because I cannot go to the class of cout and modify it.

Only thing I can do is writing a global function.

cout << m1; ---->

ostream& operator<<(ostream& out, const Money& m);

parameter of couts are ostream (object) and Money.

We will modify output stream (ostream) object because we are writing to it. (This ostream object remembers where the curser is.)

This is global function so I didn’t put const at the end.

cout << m1 << “+” << m2; 🡪 This is cascaded operator calls like 1 + 2 + 7;

cout

cout

I am returning same ostream object that I put as parameter and it is reference because there is no copying involved.

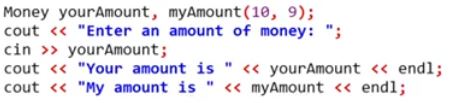
istream& operator>>(istream& in, Money& m);

>> will modify object m so it is not const.

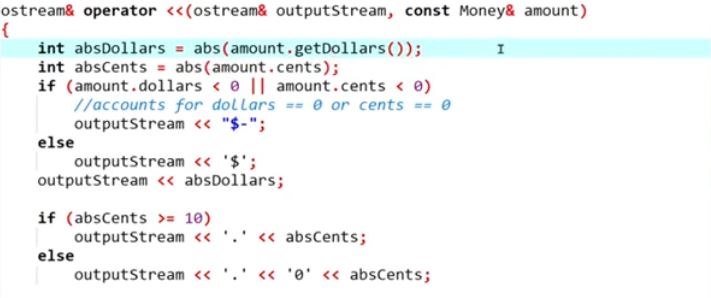
We make these functions friends.

Usually when you write the operators you make them friends.





outputStream is my cout now bc they send me the object cout as a parameter. outputStream is reference to my cout object. Whatever I do on outputStream, I do on the cout actually.



If you do cout << “$-“; it works.

Then why did we send cout as parameter to function?

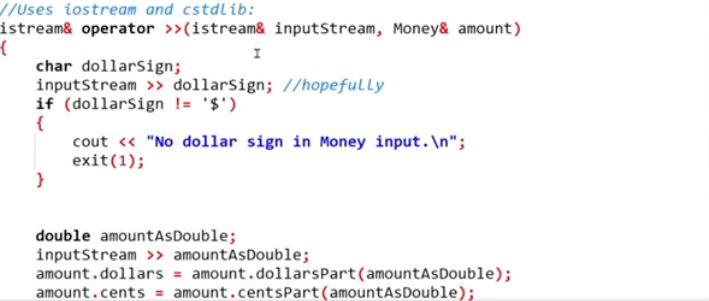
Why are we using outputStream instead of cout?

Maybe later instead of cout, I want to use another ostream object. For example

“ofstream file(“output.txt”);” 🡪 new outputStream, whatever I put in the file, it will go to output.txt.

Instead of “cout << yourAmount;” 🡪 Now you do “file << yourAmount;”.

So now, my objects know how to write themself to the file not to standard output but to file.



dollarsPart and centsPart are the private functions of class money. Since I am a friend, it is okay for me to call them.

I can use << and >> as addition operator. BUT don’t do these kind of things.

**Assignment Operator =**

* Must be overloaded as member operator
* Automatically overloaded
  + Default assignment operator:
    - Member-wise copy
    - Member variables from one object 🡪 corresponding member variables from other
    - For money class, it takes second money’s (Right-value) dollars part and assign it to second money’s (Left-value) dollars part and do same thing for cents part.
    - So default assignment operator calls the each of the members.
* Default OK for simple classes
  + But with pointers 🡪 generally must write our own

In class:

const Money& **operator**=(**const** Money& other);

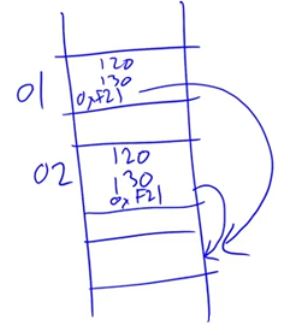
I returned money as reference so that there is no copying involved.



Also you can return (\*this).

Actually this is already overloaded for you exactly it is so you don’t need to write this function.

*//object = instance = sample*



If we have 2 objects like this which have 3 data members🡪 int , int , pointer

You shouldn’t use default assignment operator because it makes both objects assigning to same place. This is very dangerous.

Shallow copying 🡪 What the default assignment does

Deep copying 🡪 Follow the pointer and copy where it points explicitly

**Increment and Decrement**

* Each operator has 2 versions
  + Prefix notation: ++x;
  + Postfix notation: x++;
* Must distinguish in overload
  + Standard overload method 🡪 Prefix
  + Add 2d parameter of type int 🡪 Postfix
    - Just a marker for compiler
    - Specifies postfix is allowed

-m

* operator-(m)
* m.operator-()

m++

* operator++(m)
* m.operator++()

++m

* operator++(m)
* m.operator++()

SAME

How am I gonna make the difference between them?

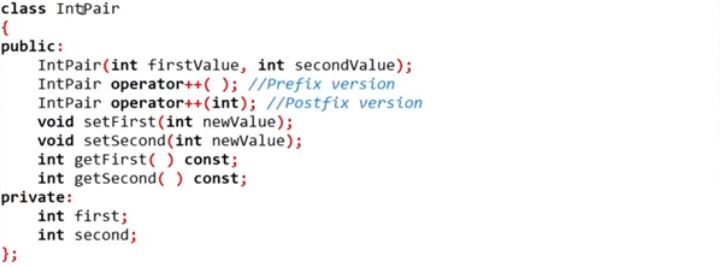
m++

* operator++(m, 1)
* m.operator++(1)

*//YOU CAN’T MAKE ARRAY WITH CLASS WITH NO PARAMETER CONSTRUCTOR*

*//IF YOU DON’T HAVE ANY CONSTRUCTOR, THEN YOU CAN BECAUSE THERE IS DEFAULT CONSTRUCTOR*

BUT if you do “IntPair (int firstValue=1, int secondValue=1);” as this, then you can make arrays. Because now I have constructors that takes 0 parameter, 1 parameter and 2 parameters.



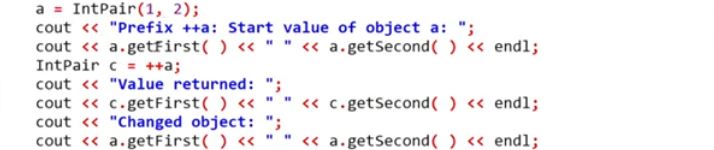
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1 2

1 2

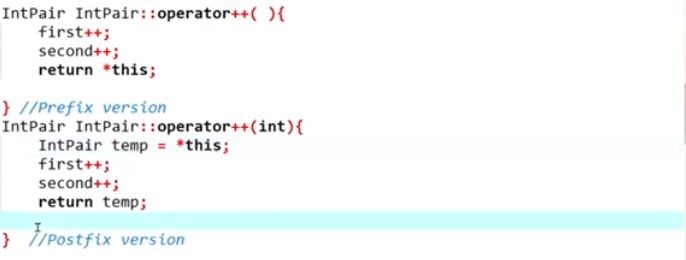
2 3



2 3

2 3

1 2



&

I CAN RETURN FIRST ONE AS REFERENCE BUT I CAN’T RETURN SECOND ONE AS REFERENCE BECAUSE YOU ARE RETURNING DEAD OBJECT IN THE SECOND ONE.

So postfix notation returns a value, prefix version returns the original object.

In this implementation, you have to change definition like this because you are returning reference:

IntPair &operator++(); //Prefix version

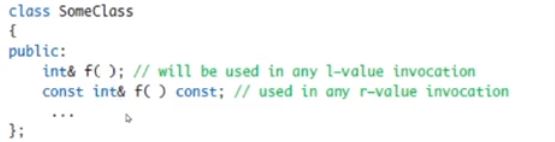
Their precedence is same.

OR



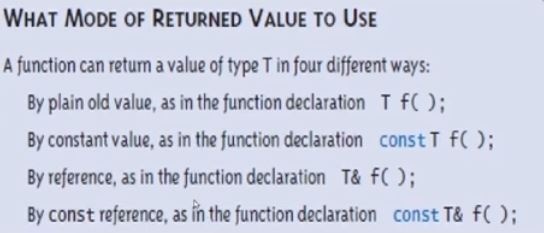
**Overload Array Operator []**

* Can overload [ ] for your class
  + To be used with objects of your class
  + Operator must return a reference!
  + Operator [ ] must be a member function!



Recall: Their signatures are different.

**What Mode of Returned Value to Use?**



If you are returning a reference, make sure that the object that you are returning the reference to is gonna stay alive. It will not die as soon as you are done with the function.

* MAIN REASON FOR REFERENCE IS INDEX OPERATOR : k[7] = S;
  + Without the references, I cannot overload index operator.
* Try not to use friends other than operator overloading
* Only const functions can be called from the const objects.
* You cannot call nonconst functions for your object in const functions.
* You cannot return a noncost reference from a const function.
* If you wanna make your func const, you have to make return value const but then you can’t make assignments after you return.