

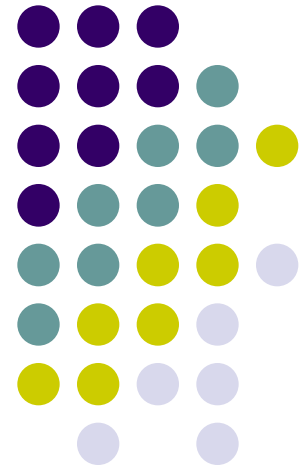
CS 460

Programming Languages

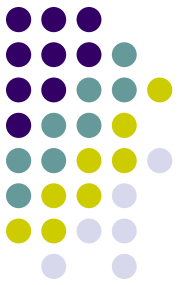
Fall 2023

Dr. Watts

(18 September 2023)

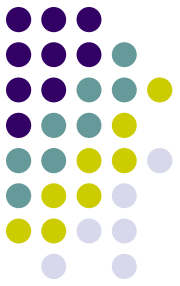


Course Administration



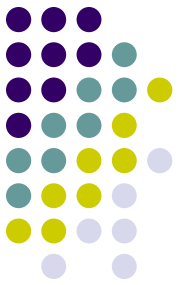
- Exercise 2 Preliminary Exercise
- Project 1 Preliminary Exercise

Class money constructors and destructor



```
// Constructors  
money ();  
money (const money & M);  
money (int D, int C);  
money (const string & S);  
money (double M);
```

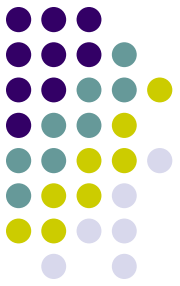
```
// Destructor  
~money ();
```



Class money operators

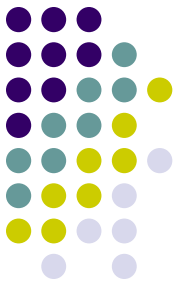
```
// Assignment
money & operator = (const money & M);
// Extraction (input)
friend istream & operator >> (istream &
    input, money & M);
// Insertion (output)
friend ostream & operator << (ostream &
    output, const money & M);
```

Class money operators



```
// Arithmetic operators
money operator + (const money & M) const;
money operator += (const money & M);
money operator - (const money & M) const;
money operator -= (const money & M);
money operator * (const double & F) const;
money operator *= (const double & F);
money operator / (const double & F) const;
money operator /= (const double & F);
money operator % (const int & F) const;
money operator %= (const int & F);
money operator ++ (); // Pre increment
money operator ++ (int); // Post increment
money operator -- (); // Pre decrement
money operator -- (int); // Post decrement
```

Class money operators



```
// Logical operators
```

```
bool operator == (const money & M) const;
```

```
bool operator != (const money & M) const;
```

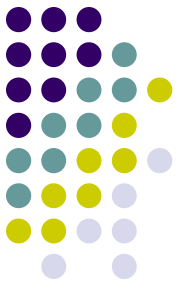
```
bool operator < (const money & M) const;
```

```
bool operator <= (const money & M) const;
```

```
bool operator > (const money & M) const;
```

```
bool operator >= (const money & M) const;
```

Class money mutators and accessors (not discussed)



```
// Accessors and Mutators
unsigned getDollars () const;
unsigned getCents () const;
void setDollars (unsigned D);
void setCents (unsigned C);
unsigned * getCurrency () const;
void setCurrency (unsigned * C) const;
unsigned & Dollars ();
unsigned & Cents ();
```