

Set
<div>+ Set() + ~Set() + Set(const Set&amp; source) + Set &amp; operator = (const Set&amp; source) + void insert(const value_type&amp; entry) + bool contains(const value_type&amp; target) + bool erase(const value_type&amp; target) + void sort(bool (*function)(value_type &amp;, value_type &amp;)) + size_type length(); + value_type &amp; operator [] (size_type index); + value_type operator [] (size_type index) const;</div>
<div>- size_type capacity; - value_type* data; - size_type size;</div>

Receipt
<div>+ Receipt(); + explicit Receipt(const Date&amp; date); + Receipt(const Date&amp; date, const Item&amp; item, int quantity); + Receipt(const Date&amp; date, const std::map&lt;Item, int&gt;&amp; items); + void setDate(const Date&amp; date); + std::map&lt;Item, int&gt; getItems() const; + Date getDate() const; + void addItem(const Item&amp; item, int quantity); + void addItems(const std::map&lt;Item, int&gt;&amp; items); + void operator +=(Receipt receipt); + void operator =(const Receipt&amp; receipt); + double totalCost() const; + Receipt operator +(const Receipt&amp; receipt) const; + std::string printItems() const; + int itemsSize() const; + double getItemCost(const Item&amp; item) const; + int getItemQuantity(const Item&amp; item) const;</div>
<div>- Date _date; - std::map&lt;Item, int&gt; _items;</div>

Member
<div>+ Member(); + Member(std::string name, unsigned int id, double totalSpent, Date expDate, bool isBasic); + Member(const Member&amp; m); + void setName(std::string name); + void setId(unsigned int id); + void setTotalSpent(double totalSpent); + void setExpirationDate(Date expDate); + void setMembershipType(bool isBasic); + std::string getName() const; + unsigned int getId() const; + bool isBasic() const; + double getTotalSpent() const; + Date getExpDate() const; + double getDues() const; + double getRebateAmount() const; + std::vector&lt;Receipt&gt; getReceipts() const; + void addReceipt(Receipt receipt); + bool operator ==(const Member&amp; m) const; + bool operator !=(const Member&amp; m) const; + std::vector&lt;Receipt&gt; getReceipts(const Date&amp; start, const Date&amp; end) const;</div>
<div>- double premiumFee; - double basicFee; - std::string _name; - unsigned int _id; - double _totalSpent; - Date _expDate; - std::vector&lt;Receipt&gt; _receipts; - bool _isBasic;</div>

Date
<div>+ static Date getCurrentDate(); + Date(); + Date(int date, int month, int year); + Date(const Date&amp; d) + void setDate(const Date&amp; d); + int getDate() const; + int getMonth() const; + int getYear() const; + Date&amp; operator ++(int); + void setNull(); + void operator =(const Date&amp; d); + bool verifyDate() const; + std::string dayOfWeek() const; + bool operator ==(const Date&amp; d) const; + bool operator !=(const Date&amp; d) const; + bool operator &gt;(const Date&amp; d) const; + bool operator &lt;(const Date&amp; d) const; + bool operator &gt;=(const Date&amp; d) const; + bool operator &lt;=(const Date&amp; d) const; + std::string printDate() const; + std::string printMonth() const;</div>
<div>- int _date - int _month - int _year; - bool isLeapYear() const; - int getCenturyValue() const; - int getYearValue() const; - int getMonthValue() const;</div>

Item
<div>+ Item(std::string name, double price); + void setName(std::string name); + void setPrice(double price); + std::string getName() const; + double getPrice() const; + bool operator &lt;(const Item&amp; item) const;</div>
<div>- std::string _name; - double _price;</div>