

A School Directory Application

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Entry	7
Faculty	12
Staff	18
Student	20
SchoolDirectory	15

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Entry	7
Faculty	12
SchoolDirectory	15
Staff	18
Student	20

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

Entry.cpp	23
Entry.h	23
Faculty.cpp	24
Faculty.h	24
SchoolDirectory.cpp	25
Staff.cpp	25
Staff.h	25
Student.cpp	26
Student.h	26

Chapter 4

Class Documentation

4.1 Entry Class Reference

```
#include <Entry.h>
```

Inherited by [Faculty](#), [Staff](#), and [Student](#).

Public Member Functions

- [Entry](#) ()
- [Entry](#) (std::string first, std::string last, std::string eAddress)
- bool [equals](#) (std::string first, std::string second)
- bool [equals](#) ([Entry](#) otherEntry)
- bool [comesBefore](#) (std::string first, std::string second)
- bool [comesBefore](#) ([Entry](#) otherEntry)
- virtual std::ostream & [print](#) (std::ostream &os) const
- virtual [~Entry](#) ()

Friends

- std::ostream & [operator<<](#) (std::ostream &os, const [Entry](#) &ent)

4.1.1 Detailed Description

Remarks

[Entry](#): a base class for entries within a School Directory * A base entry holds a first name, last name, and email address *

•

Base capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted output *

•

: files include header ([Entry.h](#)) and Implementation ([Entry.cpp](#)) *

•

Uncomment a main program for unit testing *

•

Author

Henry M. Walker *

Date

January 11, 2023 *

•

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

•

4.1.2 Constructor & Destructor Documentation**4.1.2.1 Entry() [1/2]**Entry::Entry ()**Remarks**

Default constructor (with no parameters) *

Remarks**Entry**: a base class for entries within a School Directory * A base entry holds a first name, last name, and email address *

•

Base capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted output *

•

: files include header ([Entry.h](#)) and Implementation ([Entry.cpp](#)) *

•

Uncomment a main program for unit testing *

•

Author

Henry M. Walker *

Date

January 11, 2023 *

•

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

•

Default constructor (with no parameters) *

4.1.2.2 Entry() [2/2]

```
Entry::Entry (
    std::string first,
    std::string last,
    std::string eAddress )
```

Remarks

Full-parameter constructor *

•

Parameters

<i>first</i>	a person's first name *
<i>last</i>	a person's last name *
<i>eAddress</i>	a person's email address *
	•

4.1.2.3 ~Entry()

```
Entry::~Entry ( ) [virtual]
```

Remarks

a Default destructor *

identify as virtual, since [Entry](#) has virtual functions *

Remarks

a Default destructor *

4.1.3 Member Function Documentation**4.1.3.1 comesBefore()** [1/2]

```
bool Entry::comesBefore (
    Entry otherEntry )
```

Remarks

check if this object comes before the parameter object *

•

Parameters

<i>otherEntry</i>	an entry to be compared with this object *
	•

Returns

true if [Entry](#)'s first/last names come before parameter's names * in directory order *

4.1.3.2 comesBefore() [2/2]

```
bool Entry::comesBefore (
    std::string first,
    std::string second )
```

Remarks

check if this object comes before the given first/last names *

-

Parameters

<i>first</i>	a person's first name *
<i>last</i>	a person's last name *
	•

Returns

true if [Entry](#)'s first/last names come before parameter names * in directory order *

4.1.3.3 equals() [1/2]

```
bool Entry::equals (
    Entry otherEntry )
```

Remarks

- check whether first and last names or two Entries match *

Parameters

<i>otherEntry</i>	an entry to be compared with this object *
-------------------	--

-

Returns

- true if this Entr'sy names match those of the parameter *
-

Remarks

check if this object comes before the given first/last names *

Parameters

<i>first</i>	a person's first name *
<i>last</i>	a person's last name *

-

Returns

- true if [Entry](#)'s first/last names come before parameter names * in directory order *

4.1.3.4 equals() [2/2]

```
bool Entry::equals (
    std::string first,
    std::string second )
```

Remarks

check whether first and last name of an [Entry](#) match two strings*

-

Parameters

<i>first</i>	a person's first name *
<i>last</i>	a person's last name *
	•

Returns

true if [Entry](#) names match first and last name strings *

-

4.1.3.5 print()

```
std::ostream & Entry::print (
    std::ostream & os ) const [virtual]
```

Remarks

output a format [Entry](#) object *

-

Parameters

<i>os</i>	output stream which will receive the formatted Entry data *
	<ul style="list-style-type: none"> • @ewmrk by being a virtual function, implementations in subclasses * will be interpreted via polymorphism *
	•

Returns

formatted string on the given output stream *

-

Remarks

use of a `to_string` function with a string return type * would require allocating space for a long string, * yielding a potential memory leak *

-

Reimplemented in [Faculty](#), [Staff](#), and [Student](#).

4.1.4 Friends And Related Function Documentation**4.1.4.1 operator<<**

```
std::ostream & operator<< (
    std::ostream & os,
    const Entry & ent ) [friend]
```

Remarks

overload << for printing an [Entry](#) *

-

use of the virtual print method allows tailored output * by subclasses *

-

The documentation for this class was generated from the following files:

- [Entry.h](#)
- [Entry.cpp](#)

4.2 Faculty Class Reference

```
#include <Faculty.h>
```

Inherits [Entry](#).

Public Member Functions

- [Faculty](#) (std::string first, std::string last, std::string addr, std::string room, int ext, std::string department, int yr)
- virtual std::ostream & [print](#) (std::ostream &os) const

Public Member Functions inherited from [Entry](#)

- [Entry](#) ()
- [Entry](#) (std::string first, std::string last, std::string eAddress)
- bool [equals](#) (std::string first, std::string second)
- bool [equals](#) ([Entry](#) otherEntry)
- bool [comesBefore](#) (std::string first, std::string second)
- bool [comesBefore](#) ([Entry](#) otherEntry)
- virtual std::ostream & [print](#) (std::ostream &os) const
- virtual [~Entry](#) ()

4.2.1 Detailed Description

Remarks

Faculty: a class derived from [Entry](#) for a School Directory * faculty entry * inherits a first name, last name, and email address from [Entry](#) * additional fields are the faculty member's office, extension, * department, and year of initial appointment to the school *

-

Inherited capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted orubt abd output *

-

Overwritten capabilities include: * Multi-parameter constructor * Formatted print method *

-

: files include header ([Faculty.h](#)), Implementation ([Faculty.cpp](#))*

-

Uncomment a main program for unit testing *

-

Author

Henry M. Walker *

Date

January 11, 2023 *

-

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

-

4.2.2 Constructor & Destructor Documentation

4.2.2.1 Faculty()

```
Faculty::Faculty (
    std::string first,
    std::string last,
    std::string addr,
    std::string room,
    int ext,
    std::string department,
    int yr )
```

Remarks

Full-parameter constructor *

-

Parameters

<i>first</i>	a faculty member's first name *
<i>last</i>	a faculty member's last name *
<i>eAddress</i>	a faculty member's email address *
<i>room</i>	a faculty member's office *
<i>ext</i>	the telephone number extension for the office *
<i>department</i>	the faculty member's [primary] department *
<i>yr</i>	the year of the faculty member's first appointment * _____

Remarks

Faculty: a class derived from [Entry](#) for a School Directory * faculty entry * inherits a first name, last name, and email address from [Entry](#) * additional fields are the faculty member's office, extension, * department, and year of initial appointment to the school *

•

Inherited capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted output *

•

Overwritten capabilities include: * Multi-parameter constructor * Formatted print method *

•

: files include header ([Faculty.h](#)), Implementation ([Faculty.cpp](#))*

•

Uncomment a main program for unit testing *

•

Author

Henry M. Walker *

Date

January 11, 2023 *

•

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

•

Full-parameter constructor *

•

Parameters

<i>first</i>	a faculty member's first name *
<i>last</i>	a faculty member's last name *

Parameters

<i>eAddress</i>	a faculty member's email address *
<i>room</i>	a faculty member's office *
<i>ext</i>	the telephone number extension for the office *
<i>department</i>	the faculty member's [primary] department *
<i>yr</i>	the year of the faculty member's first appointment *
	•

4.2.3 Member Function Documentation

4.2.3.1 print()

```
std::ostream & Faculty::print (
    std::ostream & os ) const [virtual]
```

Remarks

output a format [Faculty](#) object *

•

Parameters

<i>os</i>	output stream which will receive the formatted Faculty data *
	<ul style="list-style-type: none"> • @ewmrk by being a virtual function, implementations in subclasses * will be interpreted via polymorphism *
	•

Returns

formatted string on the given output stream *

•

Reimplemented from [Entry](#).

The documentation for this class was generated from the following files:

- [Faculty.h](#)
- [Faculty.cpp](#)

4.3 SchoolDirectory Class Reference

Public Member Functions

- [SchoolDirectory](#) ()
- void [add](#) ([Entry](#) person)
- void [print](#) ()
- [Entry](#) * [lookup](#) (std::string first, std::string second)

4.3.1 Detailed Description

Remarks

Example of a School Directory application * Entries take the form of Students, [Faculty](#) and [Staff](#) *

-

Example illustrates a class hierarchy * * Base class: [Entry](#) * Subclasses: [Student](#), [Faculty](#), [Staff](#) *

-

Each class has a header (.h) and implementation (.cpp) files *

Other features: overwritten << operator and virtual print * *

-

: file: [SchoolDirectory.cpp](#) *

-

Author

Henry M. Walker *

Date

January 11, 2023 *

-

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

-

4.3.2 Constructor & Destructor Documentation**4.3.2.1 SchoolDirectory()**

```
SchoolDirectory::SchoolDirectory ( ) [inline]
```

Remarks

Default constructor (with no parameters) *

4.3.3 Member Function Documentation**4.3.3.1 add()**

```
void SchoolDirectory::add (
    Entry person ) [inline]
```

Remarks

insert a person into the [SchoolDirectory](#) *

irectory entries are maintained in lastname/firstname order *

-

Parameters

<i>person</i>	the entry to be inserted into the underlying directory *
	•

Precondition

entries in the underlying directory are ordered by name *

Postcondition

the underlying directory continues to be ordered by name *

4.3.3.2 lookup()

```
Entry * SchoolDirectory::lookup (
    std::string first,
    std::string second ) [inline]
```

Remarks

entries in the directory are searched by first and last name *

•

Parameters

<i>first</i>	the first name of a person *
<i>last</i>	the last name of a person *
	•

Precondition

the underlying directory is ordered by last/first name *

Returns

if the name is found, a pointer to the entry is returned * if the name is not found, NULL is returned *

•

Remarks

searching is performed via a binarysearch *

•

4.3.3.3 print()

```
void SchoolDirectory::print ( ) [inline]
```

Remarks

entries in the underlying directory are printed to cout * with beginning and end markers *

•

The documentation for this class was generated from the following file:

- [SchoolDirectory.cpp](#)

4.4 Staff Class Reference

```
#include <Staff.h>
```

Inherits [Entry](#).

Public Member Functions

- [Staff](#) (std::string first, std::string last, std::string addr, std::string room, int ext, std::string ttl)
- std::ostream & [print](#) (std::ostream &os) const

Public Member Functions inherited from [Entry](#)

- [Entry](#) ()
- [Entry](#) (std::string first, std::string last, std::string eAddress)
- bool [equals](#) (std::string first, std::string second)
- bool [equals](#) ([Entry](#) otherEntry)
- bool [comesBefore](#) (std::string first, std::string second)
- bool [comesBefore](#) ([Entry](#) otherEntry)
- virtual std::ostream & [print](#) (std::ostream &os) const
- virtual [~Entry](#) ()

4.4.1 Detailed Description

Remarks

[Student](#): a class derived from [Entry](#) for a School Directory * a staff member's entry * inherits a first name, last name, and email address from [Entry](#) * additional fields are the member's office, extension, title *

•

Inherited capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted orubt abd output *

•

Overwritten capabilities include: * Multi-parameter constructor * Formatted print method *

•

: files include header ([Staff.h](#)), Implementation ([Staff.cpp](#)) *

•

Uncomment a main program for unit testing *

•

Author

Henry M. Walker *

Date

January 11, 2023 *

•

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

•

Full-parameter constructor *

•

Parameters

<i>first</i>	a staff member's first name *
<i>last</i>	a staff member's last name *
<i>eAddress</i>	a staff member's email address *
<i>room</i>	a staff member's office *
<i>ext</i>	the telephone number extension for the office *
<i>title</i>	the staff member's title *

4.4.2 Constructor & Destructor Documentation

4.4.2.1 Staff()

```
Staff::Staff (
    std::string first,
    std::string last,
    std::string addr,
    std::string room,
    int ext,
    std::string ttl )
```

Remarks

Student: a class derived from [Entry](#) for a School Directory * a staff member's entry * inherits a first name, last name, and email address from [Entry](#) * additional fields are the member's office, extension, title *

•

Inherited capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted output *

•

Overwritten capabilities include: * Multi-parameter constructor * Formatted print method *

•

: files include header ([Staff.h](#)), Implementation ([Staff.cpp](#)) *

•

Uncomment a main program for unit testing *

•

Author

Henry M. Walker *

Date

January 11, 2023 *

•

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

•

4.4.3 Member Function Documentation

4.4.3.1 print()

```
std::ostream & Staff::print (
    std::ostream & os ) const [virtual]
```

Remarks

output a format [Faculty](#) object *

-

Parameters

os	<p>output stream which will receive the formatted Faculty data *</p> <ul style="list-style-type: none"> • @ewmrk by being a virtual function, implementations in subclasses * will be interpreted via polymorphism * •
-----------	--

Returns

formatted string on the given output stream *

-

Reimplemented from [Entry](#).

The documentation for this class was generated from the following files:

- [Staff.h](#)
- [Staff.cpp](#)

4.5 Student Class Reference

```
#include <Student.h>
```

Inherits [Entry](#).

Public Member Functions

- [Student](#) (std::string first, std::string last, std::string addr, int yr, std::string box)
- std::ostream & [print](#) (std::ostream &os) const

Public Member Functions inherited from [Entry](#)

- [Entry](#) ()
- [Entry](#) (std::string first, std::string last, std::string eAddress)
- bool [equals](#) (std::string first, std::string second)
- bool [equals](#) ([Entry](#) otherEntry)
- bool [comesBefore](#) (std::string first, std::string second)
- bool [comesBefore](#) ([Entry](#) otherEntry)
- virtual std::ostream & [print](#) (std::ostream &os) const
- virtual [~Entry](#) ()

4.5.1 Detailed Description

Remarks

Student: a class derived from [Entry](#) for a School Directory * a student entry * inherits a first name, last name, and email address from [Entry](#) * additional fields are the student's year and PO Box *

-

Inherited capabilities include: * Base constructors * Comparison operations depend upon last names, then first names * Formatted output *

-

Overwritten capabilities include: * Multi-parameter constructor * Formatted print method *

-

: files include header ([Student.h](#)), Implementation ([Student.cpp](#))*

-

Uncomment a main program for unit testing *

-

Author

Henry M. Walker *

Date

January 11, 2023 *

-

Remarks

References *

A School Directory as an Example of Object-Oriented Design * <http://localhost/courses/cpp-style-guide/c.php> *

-

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Student()

```
Student::Student (
    std::string first,
    std::string last,
    std::string addr,
    int yr,
    std::string box )
```

Remarks

Full-parameter constructor *

-

Parameters

<i>first</i>	a student's first name *
<i>last</i>	a student's last name *
<i>eAddress</i>	a student's email address *
<i>year</i>	the student's class or expected-graduation year *
<i>box</i>	the student's campus post office box *
	•

4.5.3 Member Function Documentation

4.5.3.1 print()

```
std::ostream & Student::print (
    std::ostream & os ) const [virtual]
```

Remarks

output a format [Faculty](#) object *

•

Parameters

<i>os</i>	output stream which will receive the formatted Faculty data *
	<ul style="list-style-type: none"> • @ewmrk by being a virtual function, implementations in subclasses * will be interpreted via polymorphism *
	•

Returns

formatted string on the given output stream *

•

Reimplemented from [Entry](#).

The documentation for this class was generated from the following files:

- [Student.h](#)
- [Student.cpp](#)

Chapter 5

File Documentation

5.1 Entry.cpp File Reference

```
#include <iostream>
#include "Entry.h"
```

Functions

- `std::ostream & operator<<` (`std::ostream &os`, `const Entry &ent`)
- `int main` ()

5.1.1 Function Documentation

5.1.1.1 main()

```
int main ( )
```

Remarks

main procedure to control processing r uncomment this procedure for unit testing *

5.1.1.2 operator<<()

```
std::ostream & operator<< (
    std::ostream & os,
    const Entry & ent )
```

Remarks

overload << for printing an [Entry](#) *

•

use of the virtual print method allows tailored output * by subclasses *

•

5.2 Entry.h File Reference

Classes

- class [Entry](#)

5.3 Entry.h

[Go to the documentation of this file.](#)

```

00001
00023 #ifndef ENTRY_H
00024 #define ENTRY_H
00025
00026 class Entry {
00027
00028 public:
00029     // constructors
00033     Entry () ;
00034
00043     Entry (std::string first, std::string last, std::string eAddress) ;
00044
00054     bool equals (std::string first, std::string second) ;
00055
00064     bool equals (Entry otherEntry) ;
00065
00075     bool comesBefore (std::string first, std::string second) ;
00076
00085     bool comesBefore (Entry otherEntry) ;
00086
00102     virtual
00103         std::ostream& print (std::ostream &os) const;
00104
00112     friend std::ostream& operator<< (std::ostream &os, const Entry& ent) ;
00113
00118     virtual
00119         ~Entry () ;
00120
00121 private:
00122     // could use "protected" here, so variables may be accessed in subclasses
00123     std::string firstName;
00124     std::string lastName;
00125     std::string eMail;
00126
00127 };
00128
00129 #endif

```

5.4 Faculty.cpp File Reference

```

#include <iostream>
#include "Faculty.h"

```

5.5 Faculty.h File Reference

```

#include "Entry.h"

```

Classes

- class [Faculty](#)

5.6 Faculty.h

[Go to the documentation of this file.](#)

```

00001
00029 #ifndef FACULTY_H
00030 #define FACULTY_H
00031
00032 #include "Entry.h"
00033
00034 // Directory entries specific to faculty
00035 class Faculty : public Entry {
00036     // Faculty have four special fields
00037
00038 public:
00039
00052     Faculty (std::string first, std::string last, std::string addr, std::string room,
00053             int ext, std::string department, int yr);

```

```
00054
00066     virtual std::ostream& print (std::ostream &os) const ;
00067
00068     // Faculty have four special fields
00069 private:
00070     std::string office ;
00071     int extension ;
00072     std::string dept ;
00073     int firstYear ;
00074
00075 };
00076
00077 #endif
```

5.7 SchoolDirectory.cpp File Reference

```
#include <iostream>
#include <vector>
#include "Entry.h"
#include "Student.h"
#include "Faculty.h"
#include "Staff.h"
```

Classes

- class [SchoolDirectory](#)

Functions

- int [main](#) ()

5.7.1 Function Documentation

5.7.1.1 main()

```
int main ( )
```

Remarks

main performs a reasonable level of testing *

•

5.8 Staff.cpp File Reference

```
#include <iostream>
#include "Staff.h"
```

5.9 Staff.h File Reference

```
#include "Entry.h"
```

Classes

- class [Staff](#)

5.10 Staff.h

[Go to the documentation of this file.](#)

```
00001
00028 #ifndef STAFF_H
00029 #define STAFF_H
00030
00031 #include "Entry.h"
00032
00044 class Staff : public Entry {
00045 public:
00046     Staff (std::string first, std::string last, std::string addr,
00047           std::string room, int ext, std::string ttl) ;
00048
00060     std::ostream& print (std::ostream &os) const ;
00061
00062 // Staff have two special fields
00063 private:
00064     std::string office ;
00065     int extension ;
00066     std::string title ;
00067
00068 };
00069
00070 #endif
```

5.11 Student.cpp File Reference

```
#include <iostream>
#include "Student.h"
```

5.12 Student.h File Reference

```
#include "Entry.h"
```

Classes

- class [Student](#)

5.13 Student.h

[Go to the documentation of this file.](#)

```
00001
00028 #ifndef STUDENT_H
00029 #define STUDENT_H
00030
00031 #include "Entry.h"
00032
00033
00034 class Student : public Entry {
00035 public:
00046     Student (std::string first, std::string last, std::string addr, int yr, std::string box) ;
00047
00059     std::ostream& print (std::ostream &os) const ;
00060
00061 // Students have two special fields
00062 private:
00063     int year;
00064     std::string POBox;
00065
00066 };
00067
00068 #endif
```

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