

Polymorphism and Inheritance

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1 Hierarchical Index

1.1 Class Hierarchy

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

Employee	3
Chef	2
Owner	5
Waiter	6

2 Class Index

2.1 Class List

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

Chef	2
Employee	3
Owner	5
Waiter	6

3 File Index

3.1 File List

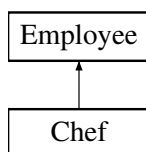
Here is a list of all files with brief descriptions:

driver.cpp	7
employee.cpp	7

4 Class Documentation

4.1 Chef Class Reference

Inheritance diagram for Chef:



Public Member Functions

- **Chef** ()
- **Chef** (string nameOfEmployee, int id, string food, int profit)
- void **print** ()

Public Attributes

- string **cuisine**

4.1.1 Constructor & Destructor Documentation

4.1.1.1 Chef() [1/2] `Chef::Chef () [inline]`

4.1.1.2 Chef() [2/2] `Chef::Chef (`
 `string nameOfEmployee,`
 `int id,`
 `string food,`
 `int profit) [inline]`

4.1.2 Member Function Documentation

4.1.2.1 print() `void Chef::print () [inline], [virtual]`

Reimplemented from **Employee** (p. 4).

4.1.3 Member Data Documentation

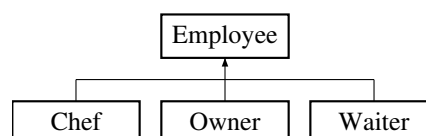
4.1.3.1 cuisine `string Chef::cuisine`

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

- **employee.cpp**

4.2 Employee Class Reference

Inheritance diagram for Employee:



Public Member Functions

- virtual void **print** ()

Public Attributes

- string **name**
- int **employeeID** = 0
- string **employeeType**
- int **baseSalary** = 0
- double **salary** = 0
- int **restaurantProfit** = 0

4.2.1 Member Function Documentation

4.2.1.1 print() `virtual void Employee::print () [inline], [virtual]`

Reimplemented in **Waiter** (p. 6), **Chef** (p. 3), and **Owner** (p. 5).

4.2.2 Member Data Documentation

4.2.2.1 baseSalary `int Employee::baseSalary = 0`

4.2.2.2 employeeID `int Employee::employeeID = 0`

4.2.2.3 employeeType `string Employee::employeeType`

4.2.2.4 name `string Employee::name`

4.2.2.5 restaurantProfit `int Employee::restaurantProfit = 0`

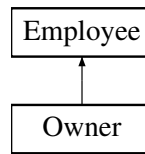
4.2.2.6 salary `double Employee::salary = 0`

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

- **employee.cpp**

4.3 Owner Class Reference

Inheritance diagram for Owner:



Public Member Functions

- **Owner** ()
- **Owner** (string *n*, int *id*, int *profit*)
- void **print** ()

Additional Inherited Members

4.3.1 Constructor & Destructor Documentation

4.3.1.1 Owner() [1/2] `Owner::Owner () [inline]`

4.3.1.2 Owner() [2/2] `Owner::Owner (`
 string *n*,
 int *id*,
 int *profit*) [inline]

4.3.2 Member Function Documentation

4.3.2.1 print() `void Owner::print () [inline], [virtual]`

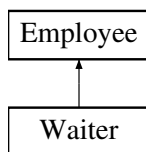
Reimplemented from **Employee** (p. 4).

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

- **employee.cpp**

4.4 Waiter Class Reference

Inheritance diagram for Waiter:



Public Member Functions

- **Waiter** ()
- **Waiter** (string nameOfEmployee, int id, int monthlyTips, int yearsWorked)
- void **print** ()

Public Attributes

- int **tips**
- int **experience**

4.4.1 Constructor & Destructor Documentation

4.4.1.1 Waiter() [1/2] `Waiter::Waiter () [inline]`

4.4.1.2 Waiter() [2/2] `Waiter::Waiter (`
 `string nameOfEmployee,`
 `int id,`
 `int monthlyTips,`
 `int yearsWorked) [inline]`

4.4.2 Member Function Documentation

4.4.2.1 print() `void Waiter::print () [inline], [virtual]`

Reimplemented from **Employee** (p. 4).

4.4.3 Member Data Documentation

4.4.3.1 experience `int Waiter::experience`

4.4.3.2 tips `int Waiter::tips`

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

- **employee.cpp**

5 File Documentation

5.1 driver.cpp File Reference

```
#include <string>
#include <iostream>
#include "Employee.cpp"
```

Functions

- `int main (void)`

5.1.1 Function Documentation

5.1.1.1 main() `int main (`
`void)`

5.2 employee.cpp File Reference

```
#include <string>
#include <iostream>
```

Classes

- class **Employee**
- class **Owner**
- class **Chef**
- class **Waiter**

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