Example 2 …. Visitor applied to a company's employees

A company has a list of employees:

Company
employees
add() display() processRequest(Visitor v)

*

Employee
id name vacationDays salary
getName() … accept()

add an employee

display employee info

this sends the visitor to each employee

getters/setters

the accept() method !
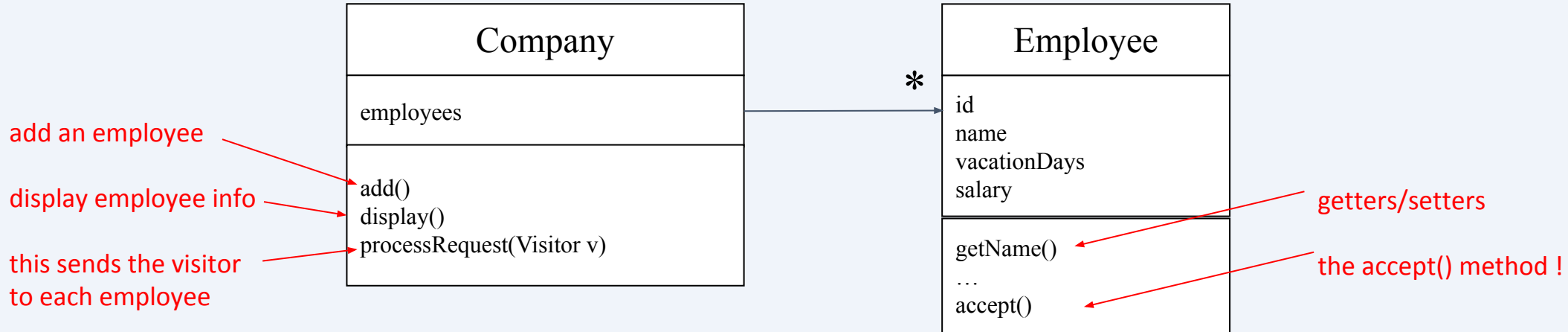
Example 2 …. Visitor applied to a company's employees

we'll define two visitors: one to modify employee salaries, and the other to modify an employee vacation days.

Company

employees

---

add()
display()
processRequest(Visitor v)

*

Employee

id
name
vacationDays
salary

---

getName()
…
accept(Visitor v)

1

```
public void accept (Visitor v){
     v.visit(this);
     }
```
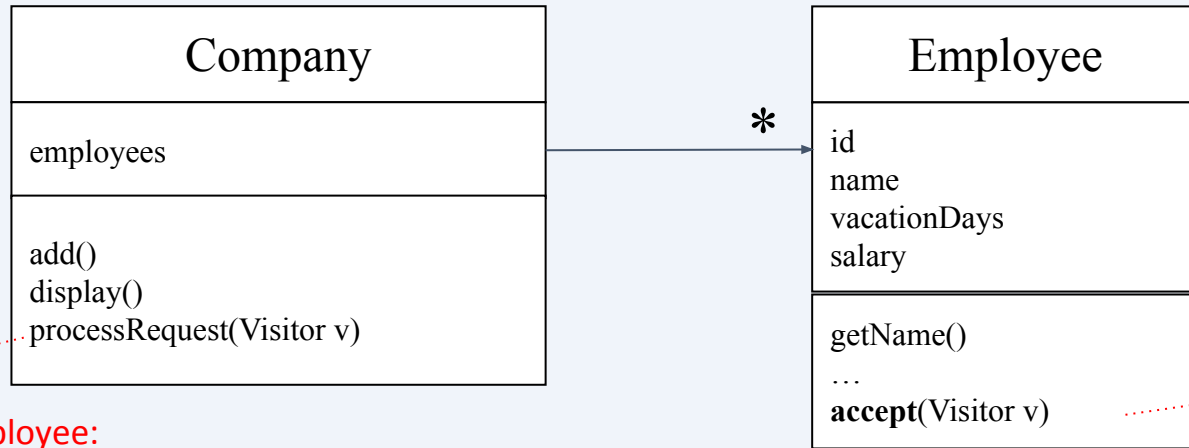
processRequest will send
accept(visitor) to each employee:

```
public void processRequest(Visitor v){
   for (Employee e: employees){
       e.accept(v);
   }
}
```

1

<< interface >>
Visitor

---

visit(Employee e)

an employee sends *visit* to the visitor
with the argument *this*, and then the
visitor can send messages to the
employee

the salary visitor will increase an
employee's salary by $1,000

SalaryVisitor

---

visit(Employee e)

the vacation visitor will increase an
employee's vacation days by 7

VacationVisitor

---

visit(Employee e)

```
public void visit(Employee e){
   e.setSalary(e.getSalary()+1000);
}
```

```
public void visit(Employee e) {
     e.setVacationDays(e.getVacationDays()+7;
   }
```

Example 2 …. Visitor applied to a company's employees

code can be found on the course web page