

# Exercise 6

22.11.2001

**Due date: 05.11.2002**

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## Assignment 6.1

This assignment introduces the visitor design pattern by building on assignment 3.1. The visitor design pattern includes an operation to be performed on the elements of an object structure, i.e. the organizational chart of assignment 3.1. The visitor pattern allows a visitor traversing an object structure and performing the same operation on each node in this structure. Different visitor objects define different operations. The advantage is that visitor design pattern lets you define a new operation without changing the classes of the elements on which it operates.

Implement the Visitor pattern in which two objects traverse the organizational chart of assignment 3.1 and perform their operation on each employee. The two visitor objects define different operations:

- one increases the salary by 1000 of each employee, if he has more than 5 employees working for him
- the other adds a secretary to each employee who is on top of at least two management levels, if no secretary is working for this employee yet.

Taken from Design Patterns, Gamme et al.

