

Ekstraopgave 2

```
import java.io.*;

class PersonList implements Serializable {
    PersonList() {}

    PersonList(String fileName) {
        try {
            ObjectInputStream in =
                new ObjectInputStream(
                    new BufferedInputStream(
                        new FileInputStream(fileName)));
            firstPerson = ((PersonList) in.readObject()).firstPerson;
            in.close();
        } catch (Exception e) {
            e.printStackTrace();
            System.exit(0);
        }
    }

    public void add(Person p) {
        p.nextPerson = firstPerson;
        firstPerson = p;
    }

    public void toFile(String fileName) {
        try {
            ObjectOutputStream out =
                new ObjectOutputStream(
                    new BufferedOutputStream(
                        new FileOutputStream(fileName)));
            out.writeObject(this);
            out.close();
        } catch (IOException e) {
            e.printStackTrace();
            System.exit(0);
        }
    }

    public String toString() {
        String s = "";
        for (Person p = firstPerson; p != null; p = p.nextPerson)
            s += p.name + "\n";
        return s;
    }

    Person firstPerson;
}

class Person implements Serializable {
    Person(String name) {
        this.name = name;
    }
    String name;
    Person nextPerson;
}
```