

OwnerUtils.java

```

2  * Copyright 2002-2013 the original author or authors.
16 package org.springframework.samples.petclinic.service;
17
18 import java.util.Collection;
19
20 import org.springframework.dao.DataAccessException;
21 import org.springframework.samples.petclinic.model.Owner;
22 import org.springframework.stereotype.Service;
23 import org.springframework.transaction.annotation.Transactional;
24
25 @Service
26 public class OwnerUtils {
27
28     public void reverseLastname(Collection<Owner> owners) {
29         for (Owner o : owners) {
30             o.setLastName(reverse(o.getLastName()));
31         }
32     }
33
34     public String reverse(String name) {
35
36         char[] input = name.toCharArray();
37
38         for (int i = 0, j = input.length - 1; i < input.length / 2; i++, j--) {
39             char c = input[i];
40             input[i] = input[j];
41             input[j] = c;
42         }
43         return new String(input);
44     }
45 }
46
47
48
49 @Override
50 @Transactional(readOnly = true)
51 public Collection<Owner> findOwnerByLastName(String lastName) throws DataAccessException {
52     Collection<Owner> owners = ownerRepository.findByName(lastName);
53     ownerUtils.reverseLastname(owners);
54     return owners;
55 }

```