Nebenläufige Programmierung

Wintersemester 2004/05 **Serie 4** 8. November 2004

Thema:

Ausgabetermin: 8. November 2004

Abgabe: **15. November 2004 (12:00)**

Aufgabe 1 (2 Punkte) Exercise 2.15 aus Andrews.

Aufgabe 2 (6 Punkte) Consider the following program:

```
int x = 0;
co <await (x != 0)  x = x - 2;>
// <await (x != 0)  x = x - 3;>
// <await (x == 0)  x = x + 5;>
oc
```

Does there exist a proof outline that demonstrates that the final value of x is 0 if the technique of weakend assertion is used? Either present a proof outline (where the critical assertions should be identified and it should be shown that they are not interfered with) or argue why none exists.

Aufgabe 3 (4 Punkte) Exercise 2.23 aus Andrews.