

Program Optimisation

Winter Semester 2004

5. Homework

Deadline: 30 Nov 2004 12:00

Exercise 1:

6 Points

Consider the following program:

```
for (i=0;i<3;i++){  
    x = new();  
    x->a = i;  
    x->b = 1;  
    l = x;  
}
```

Apply the two Pointer-Analyses of the lecture on the program.

Exercise 2:

6 Points

Apply the Work-Set Iteration for the computation of available expressions for the factorial program. Determine the number of computations on the right hand side.