

# Language Based Security

*Winter Semester 2007*

*2. Homework*

*7 Nov 2007*

## Exercise 1:

Consider the following C program.

```
main () {  
    char s[20];  
    int i,j;  
    for (i=0; i<=10; i++) {  
        j = 2*i;  
        s[j] = 'a';  
    }  
}
```

- a) Produce the instrumented C program for cleanness analysis.
- b) Produce an integer program by removing other kinds of data from the program.
- c) Apply interval analysis to check cleanness of the above program.