

Course name

Exam Assignment January 2016

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I hereby declare that I have answered these exam questions myself without any outside help.

Signature

Date

Question 1

This is code in a box

Listing 1.1: This is a caption

```
void fac(int n, int *res) {
    if (n == 0)      /* fac's n */
        *res = 1;
    else {
        int tmp;
        fac(n-1, &tmp);
        *res = tmp * n;
    }
}
```

This is code in the free

```
let rec lookup env x =
  match env with
  | []          -> failwith (x + " not found")
  | (y, v)::r   -> if x=y then v else lookup r x;;

type expr =
| CstI of int
| Var  of string
| Prim of string * expr * expr;;
```

Happy exam! :-)

Question 2

Part 2.1

Part 2.2

Appendix A

Some code