

# CS 511 – Quiz 6: Sequential Erlang

26 October 2017

Names:

Pledge:

## Exercise 1

1. Implement a simple function `calc` that computes the result of a *calculator expression (CE)*. CEs are given by the following grammar:

```
<exp> ::= {var,<string>}  
        | {const,<integer>}  
        | {add,<exp>,<exp>}  
        | {sub,<exp>,<exp>}  
        | {mul,<exp>,<exp>}  
        | {divi,<exp>,<exp>}
```

it should return a *value*. A value is an expression of the form:

```
<val> ::= {const,<integer>}
```

The function `calc` must also take an environment (list of association between variables and integers) in order to resolve variable names.