CSE 341, Pattern Matching and Datatypes
April 9, 2014

Programmer 1 : _____

Programmer 2 : _____

Programmer 3 : _____

Programmer 4 : _____

(A) With your group, write a function `str_of_exp :  exp -> string` which produces a string representation of the given exp. *Bous:* Only include the parentheses that are strictly necessary.

(B) With your group, write a function `eval' :  (env * exp') -> int` that evaluates an extended expression in the given environment.

(C) With your group, write a function `compile :  (env * exp') -> exp` that "compiles" an extended expression in the given environment to a basic expression.

(D) How would you prove the following?

$$\forall e. \ \forall g. \ eval'(g, e) \ = \ eval(compile(g, e))$$