HW8

1) Multidimensional arrays can be stored in row major order, as in C++, or in column major order, as in Fortran. Develop the access functions for both of these arrangements for three-dimensional arrays.

2) In what way is static type checking better than dynamic type checking?

3) Describe a situation in which the add operator in a programming language would not be commutative.

4) Consider the following C program:

   ```c
   int fun(int *i) {
       *i += 5;
       return 4;
   }

   void main() {
       int x = 3;
       x = x + fun(&x);
   }
   ```

   What is the value of x after the assignment statement in main, assuming

   a) operands are evaluated left to right.
   b) operands are evaluated right to left.