

3. For the following C expressions, give an equivalent expression that evaluates to the same value. In cases where there is more than one possible answer give the simplest expression with the least number of operators.

```
int a[5];          /* int[5] a;  -- Reduced-C syntax */
```

&a[3] _____

*a _____

a _____

&*a _____

*&a[4] _____

a[1] _____

If a[0] is allocated at memory location 4000, at what memory location is a[4]? _____

4. Use of typedefs in Reduced-C to define composite types

Using Reduced-C syntax, define an array of 9 pointers to bool named fool (rhymes with bool) such that

```
bool b = true;
```

```
fool[8] = &b;
```

```
b = *fool[8];
```

are valid expressions. This will take two lines of Reduced-C code.

What question would you like to see on the Midterm?