

4. From the Reduced-C Spec (which follows closely the real C language standard), complete the following:

- A) Addressable C) Modifiable
- B) Not Addressable D) Not Modifiable

A Non-Modifiable L-value is _____ and _____.

An R-value is _____ and _____.

A Modifiable L-value is _____ and _____.

5. Given the following Reduced-C code below, fill in the blanks of the compile error that should be reported according to this quarter's Project I spec. Use the letters associated with the words in the box below.

```
typedef float F1;  
typedef F1 F2;  
typedef int I1;  
typedef I1 I2;  
  
I1 x;  
I2 y;  
F2 z;
```

- | | |
|----------------|---------------|
| A. I1 | B. I2 |
| C. int | D. F1 |
| E. F2 | F. float |
| G. integer | H. typedef |
| I. equivalent | J. modifiable |
| K. addressable | L. assignable |

`x = z = y; // Compile error reported here. Assume this stmt is inside a function.`

Value of type _____ not _____ to variable of type _____ .

6. State whether constant folding can be performed by the compiler according to this quarter's Reduced-C spec in the following Reduced-C statements (**Y** or **N**)

```
function : void foo()  
{  
  const int a = 5;  
  int b = 3;  
  
  const int c = a + 10;        _____  
  
  int[53 + c] d;                _____  
  
  d[-2 + (a * b)] = c;        _____  
  
  b = d[d[2] + c];            _____  
  
  int e = d[a + c];            _____  
  
  e = d[13 + b];                _____  
  
  e = d[e + a];                _____  
  
  d[5 - 2 + c] = e;            _____  
}
```

- | |
|---------|
| Y - Yes |
| N - No |

7. In Reduced-C (which follows closely the real C standard) we use _____ name equivalence with struct types. And we use _____ name equivalence with typedefs. For all other types we use _____ equivalence.