

```
[1]

p[2]                                // 104

sizeof(p)                            // 8

m->msg + 1                          // char *

"0"[1]==0 && "0"[1]=='\0'          // 1

*argv++                             // char *

m->msg - (char *)m                  // 16

&m[0]                                // struct MdbRec *

sizeof(m[0].msg)                    // 24

&p                                  // int **

x + y                               // -2

c[2]                                // 255
```

```
&c                                // unsigned char **  
  
(~x) & y                          // 0  
  
sizeof(a) / sizeof(a[0])           // 10  
  
*&*&a[5]                           // 105
```

2 points each, no partial credit, except:

(1.7) MdbRec * is acceptable and gets full credit.

(1.12) char ** is acceptable and gets full credit.

[2]

(a)

ABCabc123

- ABCabc123\n is acceptable and gets full credit.

(b)

7 bytes

- no partial credit

(c)

NONE

- reduction of -1 point for each line falsely identified up to -5.

(d)

32: free(p);

[3]

(a)

{Romney} said {binders full of women}

{Romney} said {binders full of women}

(b)

40 bytes.

- no partial credit

(c)

22,23: p = (struct MdbRec *)malloc(sizeof(struct MdbRec));

23,24: free(p);

26,27: free(p);

- 5 points for each line correctly identified, with BOTH of the existing

line numbers enclosing the new line.

- casting to (struct MdbRec *) can be omitted.

- "MdbRec" instead of "struct MdbRec" is fine.

- malloc(40) is fine.

A solution can be crafted in a few different ways, but you need to use a

static variable in all cases. Two different solutions are shown below:

```
int f()
{
    static int x = 0;
    return ++x;
}
```

```
int f()
{
    static int i = 0;
    i++;
    if (i == 10)
        return 55;
    else
        return 0;
}
```

- No credit if static variable is not declared inside f.