Quiz 3: Answer Key

1. Construct the decimal number 48 with only the following:

OIL0000 ((1<< 2)-1)<<4

- (a) The number 1
- (b) Shifts
- (c) Parentheses
- (d) Subtract 1
- 2. Write your answer in binary.

Evaluate: 0xAC + 0x1E



- 3. What number would you chmod a file to get the following permissions?
 - (a) User has read/write/execute permissions

726

- (b) Group has only write permissions
- (c) The world ("other") has read/write permissions, but no execute permissions.
- 4. Consider the following program:

```
#include <stdio.h>
int foo(int x)
{
   if (x>0)
   {
     return 1;
   }
   int y = x+foo(x-1);
   return y;
}
int main(void)
{
   int bar = foo(5);
   printf("%d\n", bar);
   return 0;
}
```

If you thought the bug in your program was in the foo method, particularly with the variable y, what would be the first command you execute after loading in your executable?

- (a) watch y
- (b) continue
- (c) break foo
- (d) next