CS 60 SECOND QUIZ April 13, 2010 WRITE ALL YOUR ANSWERS ON SPACE PROVIDED. ANSWER ALL FOUR QUESTIONS. TOTAL POINTS IS 30.

NAME:_

- 1 { Circle for each part True or False depending whether or not the statement is true or false. Each question is worth 1.5 points}
 - { True or False } The line int xx; inside the main function declares variable xx as an integer stored using four bytes.
 - { True or False } The for statement for(i = 0; i > 0; i++); is an invalid statement in C.
 - { True or False } The body of the for statement for(i = 0; i < 0; i++) is executed zero times.
 - { True or False } Just after the following three lines, the value of x is equal to 8.

int x = 4; int y = 8; x = y = 4;

- { True or False } When x is declared as an integer, then the value of x is equal to 1 after executing the statement x = (3 == 5);
- { True or False } When x is declared as an integer, then the value of x equal to 100 after executing the statement x = 101 && 102;
- { True or False } When x is declared as an integer, then the value of x equal to 100 after executing the statement x = 101 & 102;
- { True or False } In C the statement $x = 2^{4}$ assigns x the value of 16.
- { True or False } In C the statement x = (y = 2) + (z = 3); assigns x the value of 5.
- { True or False } The line enum {a=1, b, c, d} assigns a the value 1, b the value 2, c the value 3, and d the value of 4.
- { True or False } The line int x, y=99; declares x and y to be integers and assigns to x and y the initial value of 99.
- { True or False } The line int x=y=99; declares x and y to be integers and assigns to x and y the initial value of 99.
- { True or False } The Unix (Linux) command rm is used to RenaMe files.
- { True or **False** } The Unix (Linux) command **cp** is used to list the files in the current directory.

2 If statement [1 point]

Clearly indicate what is the value printed when the following block of code is executed.

```
{ int x=0;
 int y=0;
 if (x == 1)
    y += 1;
    x += 1;
 printf("%d\n",x); -> 1
}
```

3 If statement [2 points]

What does the following program print? the second if.

```
int x=3;
int y=3;
if (x == 3)
    if (y == 2)
        printf("***\n");
        x++; -> Syntax is wrong
else -> Everyone gets 2 points
    printf("###\n");
printf("%d %d\n",x,y};
```

4 Switch [4 points]

What is printed when when the input value for s is 2? How about when the input value is 1? How about when the input value is 3? How about when the input value is -1 ?

```
{
   int s;
   scanf("%d",&s);
   switch( s )
    {case 2: s--;
                                                inp
                                                      out
     case 3: s--; break;
                                                 2
                                                       0
                                                 1
     case 1: s++;
                                                       3
                                                 3
                                                       2
     default: s++;
    }
                                                -1
                                                       0
   printf("s is %d\n",s);
}
```

5 For Loop [2 points]

What is printed after executing the following code?

```
{
    int i, s;
    s = 1;
    for ( i = s, s++; i<= 10; i++, s++)
        { i++; s++;
            if (i < 4) continue;
               else break;
            printf("i is %d\n",i);
        }
    printf("s is %d\n",s); -> 5
}
```