> 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 ( $\mathrm{i}=0$; $\mathrm{i}>0$; $i++$ ) ; is an invalid statement in C.
- \{ True or False \} The body of the for statement for ( $\mathrm{i}=0$; $\mathrm{i}<0$; $\mathbf{i + +}$ ) is executed zero times.
- \{ True or False \} Just after the following three lines, the value of x is equal to 8 .
int $\mathrm{x}=4$;
int $y=8$;
$\mathrm{x}=\mathrm{y}=4$;
- \{ True or False \} When x is declared as an integer, then the value of x is equal to 1 after executing the statement $\mathrm{x}=(3==5)$;
- \{ True or False \} When x is declared as an integer, then the value of x equal to 100 after executing the statement $\mathrm{x}=101 \& \& 102$;
- \{ True or False \} When x is declared as an integer, then the value of x equal to 100 after executing the statement $\mathrm{x}=101 \& 102$;
- $\{$ True or False $\}$ In C the statement $x=2 \wedge 4$ 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 $2, \mathrm{c}$ the value 3 , and d the value of 4 .
- $\{$ True or False $\}$ The line int $\mathrm{x}, \mathrm{y}=99$; declares x and y to be integers and assigns to x and y the initial value of 99 .
- \{ True or False \} The line int $\mathrm{x}=\mathrm{y}=99$; 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
        case 1: s++; 1 3
        default: s++; 3 2
        } -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
}
```

