Operators in C

Lecture 2 Assignments

1.

```c
#include <stdio.h>

int main(void){

    int num, first, second, rev;

    printf ("Enter a 2-digit number:");
    scanf ("%d", &num);

    //get the first digit by dividing the number by 10
    first = num/10;

    //get the second digit by getting the remainder
    second = num%10;

    /*to get the reverse of the digits, we multiply
    the second digit with 10 and add the first digit*/
    rev = second*10+first;

    printf ("Reverse:%d", rev);

    return 0;
}
```

Example output:

```
Enter a 2-digit number:85
Reverse:58
```

2.

```c
#include <stdio.h>

int main(void){

    int num, first, second, third, rev;

    printf ("Enter a 3-digit number:");
    scanf ("%d", &num);

    //get the first digit by dividing the number by 100
    first = num/100;

    /*get the second digit by dividing the number by 10 and
    getting the remainder of the qoutient divided by 10*/
    second = (num/10)%10;

    /*get the third digit by getting the remainder of
    the number divided by 10*/
    third = num%10;

    /*to get the reverse of the number, we multiply the
    third digit by 100 then multiply the second digit by
    10 and add the products of the two, along with the
    first digit*/
    rev = (third*100) + (second*10)+first;

    printf ("Reverse:%d", rev);

    return 0;
}
```

Example output:

```
Enter a 3-digit number:765
Reverse:567
```

3.

```c
#include <stdio.h>

int main (void){

    int i, j, k;

    i = 3; j = 4; k = 5;
    printf ("%d\n", i<j || ++j < k);

    i=7; j=8; k=9;
    printf ("%d\n", i-7 && j++ < k);

    i = 7; j = 8; k = 9;
    printf ("%d ", (i=j) || (j==k));
    printf ("%d %d %d\n", i, j, k);

    i = j = k = 1;
    printf ("%d ", ++i || ++j && ++k);
    printf ("%d %d %d\n", i, j, k);

    return 0;

}
```

Output:

a) 1
b) 0
c) 1 8 8 9
d) 1 2 1 1