Operators in C Lecture 2 Assignments

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- 1. Code the following:
 - a. Prompt the user to enter a two-digit number
 - b. Display the number with the digits reversed

Code (as1.c):

```
1 #include <stdio.h>
2
3 int main(void){
4    int i, j;
5
6    printf("Enter a two digit number: ");
7    scanf("%1d%1d", &i, &j);
8
9    printf("Reveresed number: %d%d\n", j, i);
10
11    return 0;
12 }
```

Example Output:

```
C:\Users\user\Documents\CMSC21\Lecture2\Assignments>as1
Enter a two digit number: 37
Reveresed number: 73
```

2. Extend the code in item 1, such that it reverses a 3-digit number. **Code (as2.c):**

```
#include <stdio.h>

int main(void){
    int i, j, k;

    printf("Enter a three digit number: ");
    scanf("%1d%1d%1d", &i, &j, &k);

printf("Reveresed number: %d%d%d\n", k, j, i);

return 0;
}
```

Example Output:

```
C:\Users\user\Documents\CMSC21\Lecture2\Assignments>as2
Enter a three digit number: 345
Reveresed number: 543
```

3. Provide the output of the following codes, given that i, j, and k are integer variables.

```
a. i = 3; j = 4; k = 5;
printf("%d", i < j || ++j < k);</li>
b. i = 7; j = 8; k = 9;
printf("%d", i - 7 && j++ < k);</li>
c. i = 7; j = 8; k = 9;
printf("%d", (i = j) || (j == k));
printf("%d %d %d", i, j, k);
d. i = j = k = 1;
printf("%d", ++i || ++j && ++k);
printf("%d %d %d", i, j, k);
```

Code (as3.c):

Example Output:

```
C:\Users\user\Documents\CMSC21\Lecture2\Assignments>as3
a)1
b)0
c)1
d)1
2 1 1
```