Operators in C
Lecture 1 Assignments

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1.

as1.c

```c
#include <stdio.h>

int main()
{
    int number, remainder, reverse;
    printf("Please enter a 2-digit number: ");
    scanf("%d", &number);

    remainder = number % 10;
    reverse = (remainder * 10) + ((number - remainder) / 10);

    printf("Reverse: %d\n", reverse);
    return 0;
}
```

C:\Users\Rainer\Desktop\as1.exe

```
Please enter a 2-digit number: 24
Reverse: 42

Process returned 0 (0x0)   execution time : 10.466 s
Press any key to continue.
```

2.

as2.c

```c
#include <stdio.h>

int main()
{
    int number, remainder1, remainder2, reverse;
    printf("Please enter a 3-digit number: ");
    scanf("%d", &number);

    remainder1 = number % 10;
    number /= 10;

    remainder2 = number % 10;
    reverse = (remainder1 * 100) + (remainder2 * 10) + ((number - remainder2) / 10);

    printf("Reverse: %d\n", reverse);
    return 0;
}
```

C:\Users\Rainer\Desktop\as2.exe

```
Please enter a 3-digit number: 432
Reverse: 234

Process returned 0 (0x0)   execution time : 10.935 s
Press any key to continue.
```

3. a.

main.c

```c
#include <stdio.h>

int main()
{
    int i = 3, j = 4, k = 5;
    printf("%d", i < j || ++j < k);
    return 0;
}
```

```
1
Process returned 0 (0x0)   execution time : 0.011 s
Press any key to continue.
```

The output is 1 so the relation is True.

b.

```c
#include <stdio.h>

int main()
{
    int i = 7, j = 8, k = 9;
    printf("%d",i - 7 && j++ < k);
    return 0;
}
```

```
0
Process returned 0 (0x0)   execution time : 0.016 s
Press any key to continue.
```

The output is 0 so the relation is false.

c.

```c
#include <stdio.h>

int main()
{
    int i = 7, j = 8, k = 9;
    printf("%d", (i = j) || (j == k));
    printf("%d %d %d", i, j, k);
    return 0;
}
```

```
18 8 9
Process returned 0 (0x0)   execution time : 0.031 s
Press any key to continue.
```

The output is 1 for the first print function so the relation is True.

The second print function is 8 8 9. It became 8 because in the relation it was stated i = j, which j = 8.

d.

```c
#include <stdio.h>

int main()
{
    int i, j, k;
    i = j = k = 1;
    printf("%d", ++i || ++j && ++k);
    printf("%d %d %d", i, j, k);
    return 0;
}
```

```
12 1 1
Process returned 0 (0x0)   execution time : 0.016 s
Press any key to continue.
```

The output of the first print function is 1 so the relation is True.
The second print function is became 2 1 1 because of incremenation.