

```

1
2
3
4 int main() {
5     int i = 0;
6     printf("%d\n", i++);
7     printf("%d", i);
8
9     return 0;
10
11

```

Adding one and subtracting one in C are such big deals that most programming languages have a special operation just for that! The increment operation (++) and decrement operation (--)

Each these operations increases and decreases the integer value by 1 but where you place the operators can have different effects on the evaluation of your program.

- Using the operator before the variable (example: --i) will process the decrement and then evaluate the variables value. So it will increment or decrement the variable and then do whatever with the result.
- Using the operator AFTER the variable (example: i++) will make the program evaluate the variable for that line of code and then do the increment/decrement. This is important to consider when writing and looking at code.

### Special note:

There are additional operators you can use to quickly perform operations on variables:

- Example: (a += 10) this takes the old value of a and adds 10 to that and assigns that value as the variable
- Example: (a \*= 10) this takes the old value of a and multiplies 10 to that and assigns that value as the variable
- Example: (a /= 10) this takes the old value of a and divides 10 to that and assigns that value as the variable
- Example: (a %= 10) this takes the old value of a and performs the remainder operation by 10 to that variable and assigns that value as the variable
- Example: (a -= 10) this takes the old value of a and subtracts 10 to that and assigns that value as the variable.