



Computer Languages and Lab

Operators and Expressions

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• Integer Arithmetic

- + → addition
- - → subtraction
- * → multiplication
- / → division
- % → modulo division

```
9 // Integer Arithmetic
10 #include <stdio.h>
11 #define N 5
12
13 int main()
14 {
15     int months, days;
16     printf("Enter days\n");
17     scanf("%d", &days);
18     months = days / 30;
19     days = days % 30;
20     printf("Months: %d, Days: %d\n", months, days);
21     return 0;
22 }
23
```

```
Enter days
56
Months: 1, Days: 26
```



• Shorthand Assignment Operators

- +=
- *=
- -=

```
9 // Shorthand Operator: *=
10 #include <stdio.h>
11 #define N 100
12 #define A 2
13 int main()
14 {
15     int a = A;
16     a = A;
17     while(a < N){
18         printf("%d\n", a);
19         a *= a;
20     }
21     return 0;
22 }
23
```



2
4
16



Increment and Decrement Operators

- Increment Operators

```
9 // Increment and Decrement Operators
10 #include <stdio.h>
11 #define N 5
12 #define A 2
13 int main()
14 {
15     int a = A;
16     a = A;
17     while(a < N){
18         printf("%d\n", a);
19         a++;
20     }
21     return 0;
22 }
23
```



2
3
4