int

```
please enter 2 int values: 2 5

2 + 5 = 7
2 - 5 = -3
2 * 5 = 10
2 / 5 = 0
2 % 5 = 2
2 << 5 = 64
2 >> 5 = 0
2 & 5 = 0
2 | 5 = 7
2 && 5 = 1
2 || 5 = 1
var1++ (2) evaluates to 2
        var1 is now: 3
var1-- (3) evaluates to 3
        var1 is now: 2
++var2 (5) evaluates to 6
        var2 is now: 6
--var2 (6) evaluates to 5
        var2 is now: 5


please enter 2 int values: 9 3

9 + 3 = 12
9 - 3 = 6
9 * 3 = 27
9 / 3 = 3
9 % 3 = 0
9 << 3 = 72
9 >> 3 = 1
9 & 3 = 1
9 | 3 = 11
9 && 3 = 1
9 || 3 = 1
var1++ (9) evaluates to 9
        var1 is now: 10
var1-- (10) evaluates to 10
        var1 is now: 9
++var2 (3) evaluates to 4
        var2 is now: 4
--var2 (4) evaluates to 3
        var2 is now: 3
```

```
please enter 2 int values: 20 30

20 + 30 = 50
20 - 30 = -10
20 * 30 = 600
20 / 30 = 0
20 % 30 = 20
20 << 30 = 0
20 >> 30 = 0
20 & 30 = 20
20 | 30 = 30
20 && 30 = 1
20 || 30 = 1
var1++ (20) evaluates to 20
        var1 is now: 21
var1-- (21) evaluates to 21
        var1 is now: 20
++var2 (30) evaluates to 31
        var2 is now: 31
--var2 (31) evaluates to 30
        var2 is now: 30

please enter 2 int values: 45 10

45 + 10 = 55
45 - 10 = 35
45 * 10 = 450
45 / 10 = 4
45 % 10 = 5
45 << 10 = 46080
45 >> 10 = 0
45 & 10 = 8
45 | 10 = 47
45 && 10 = 1
45 || 10 = 1
var1++ (45) evaluates to 45
        var1 is now: 46
var1-- (46) evaluates to 46
        var1 is now: 45
++var2 (10) evaluates to 11
        var2 is now: 11
--var2 (11) evaluates to 10
        var2 is now: 10
```

```
please enter 2 int values: -12 15

-12 + 15 = 3
-12 - 15 = -27
-12 * 15 = -180
-12 / 15 = 0
-12 % 15 = -12
-12 << 15 = -393216
-12 >> 15 = -1
-12 & 15 = 4
-12 | 15 = -1
-12 && 15 = 1
-12 || 15 = 1
var1++ (-12) evaluates to -12
        var1 is now: -11
var1-- (-11) evaluates to -11
        var1 is now: -12
++var2 (15) evaluates to 16
        var2 is now: 16
--var2 (16) evaluates to 15
        var2 is now: 15

please enter 2 int values: -5 -5

-5 + -5 = -10
-5 - -5 = 0
-5 * -5 = 25
-5 / -5 = 1
-5 % -5 = 0
-5 << -5 = -671088640
-5 >> -5 = -1
-5 & -5 = -5
-5 | -5 = -5
-5 && -5 = 1
-5 || -5 = 1
var1++ (-5) evaluates to -5
        var1 is now: -4
var1-- (-4) evaluates to -4
        var1 is now: -5
++var2 (-5) evaluates to -4
        var2 is now: -4
--var2 (-4) evaluates to -5
        var2 is now: -5
```

```
please enter 2 int values: 18 -2

18 + -2 = 16
18 - -2 = 20
18 * -2 = -36
18 / -2 = -9
18 % -2 = 0
18 << -2 = -2147483648
18 >> -2 = 0
18 & -2 = 18
18 | -2 = -2
18 && -2 = 1
18 || -2 = 1
var1++ (18) evaluates to 18
        var1 is now: 19
var1-- (19) evaluates to 19
        var1 is now: 18
++var2 (-2) evaluates to -1
        var2 is now: -1
--var2 (-1) evaluates to -2
        var2 is now: -2

please enter 2 int values: 11 100

11 + 100 = 111
11 - 100 = -89
11 * 100 = 1100
11 / 100 = 0
11 % 100 = 11
11 << 100 = 176
11 >> 100 = 0
11 & 100 = 0
11 | 100 = 111
11 && 100 = 1
11 || 100 = 1
var1++ (11) evaluates to 11
        var1 is now: 12
var1-- (12) evaluates to 12
        var1 is now: 11
++var2 (100) evaluates to 101
        var2 is now: 101
--var2 (101) evaluates to 100
        var2 is now: 100
```

int8_t

```
please enter 2 int8_t values: 5 9          please enter 2 int8_t values: 18 3          please enter 2 int8_t values: -3 3          please enter 2 int8_t values: 125 9

5 + 9 = 14                                  18 + 3 = 21                                 -3 + 3 = 0                                  125 + 9 = -122
5 - 9 = -4                                  18 - 3 = 15                                 -3 - 3 = -6                                 125 - 9 = 116
5 * 9 = 45                                  18 * 3 = 54                                 -3 * 3 = -9                                 125 * 9 = 101
5 / 9 = 0                                   18 / 3 = 6                                  -3 / 3 = -1                                 125 / 9 = 13
5 % 9 = 5                                   18 % 3 = 0                                  -3 % 3 = 0                                  125 % 9 = 8
5 << 9 = 0                                  18 << 3 = -112                             -3 << 3 = -24                               125 << 9 = 0
5 >> 9 = 0                                  18 >> 3 = 2                                 -3 >> 3 = -1                                125 >> 9 = 0
5 & 9 = 1                                   18 & 3 = 2                                  -3 & 3 = 1                                  125 & 9 = 9
5 | 9 = 13                                  18 | 3 = 19                                 -3 | 3 = -1                                 125 | 9 = 125
5 && 9 = 1                                  18 && 3 = 1                                 -3 && 3 = 1                                 125 && 9 = 1
5 || 9 = 1                                  18 || 3 = 1                                 -3 || 3 = 1                                 125 || 9 = 1
var1++ (5) evaluates to 5                   var1++ (18) evaluates to 18                var1++ (-3) evaluates to -3                 var1++ (125) evaluates to 125
        var1 is now: 6                              var1 is now: 19                             var1 is now: -2                             var1 is now: 126
var1-- (6) evaluates to 6                   var1-- (19) evaluates to 19                var1-- (-2) evaluates to -2                 var1-- (126) evaluates to 126
        var1 is now: 5                              var1 is now: 18                             var1 is now: -3                             var1 is now: 125
++var2 (9) evaluates to 10                  ++var2 (3) evaluates to 4                  ++var2 (3) evaluates to 4                   ++var2 (9) evaluates to 10
        var2 is now: 10                             var2 is now: 4                              var2 is now: 4                              var2 is now: 10
--var2 (10) evaluates to 9                  --var2 (4) evaluates to 3                  --var2 (4) evaluates to 3                   --var2 (10) evaluates to 9
        var2 is now: 9                              var2 is now: 3                              var2 is now: 3                              var2 is now: 9


please enter 2 int8_t values: -3 24         please enter 2 int8_t values: 112 -4        please enter 2 int8_t values: 19 2          please enter 2 int8_t values: -125 9

-3 + 24 = 21                                112 + -4 = 108                              19 + 2 = 21                                 -125 + 9 = -116
-3 - 24 = -27                               112 - -4 = 116                              19 - 2 = 17                                 -125 - 9 = 122
-3 * 24 = -72                               112 * -4 = 64                               19 * 2 = 38                                 -125 * 9 = -101
-3 / 24 = 0                                 112 / -4 = -28                              19 / 2 = 9                                  -125 / 9 = -13
-3 % 24 = -3                                112 % -4 = 0                                19 % 2 = 1                                  -125 % 9 = -8
-3 << 24 = 0                                112 << -4 = 0                               19 << 2 = 76                                -125 << 9 = 0
-3 >> 24 = -1                               112 >> -4 = 0                               19 >> 2 = 4                                 -125 >> 9 = -1
-3 & 24 = 24                                112 & -4 = 112                              19 & 2 = 2                                  -125 & 9 = 1
-3 | 24 = -3                                112 | -4 = -4                               19 | 2 = 19                                 -125 | 9 = -117
-3 && 24 = 1                                112 && -4 = 1                               19 && 2 = 1                                 -125 && 9 = 1
-3 || 24 = 1                                112 || -4 = 1                               19 || 2 = 1                                 -125 || 9 = 1
var1++ (-3) evaluates to -3                 var1++ (112) evaluates to 112              var1++ (19) evaluates to 19                 var1++ (-125) evaluates to -125
        var1 is now: -2                             var1 is now: 113                            var1 is now: 20                             var1 is now: -124
var1-- (-2) evaluates to -2                 var1-- (113) evaluates to 113              var1-- (20) evaluates to 20                 var1-- (-124) evaluates to -124
        var1 is now: -3                             var1 is now: 112                            var1 is now: 19                             var1 is now: -125
++var2 (24) evaluates to 25                 ++var2 (-4) evaluates to -3                ++var2 (2) evaluates to 3                   ++var2 (9) evaluates to 10
        var2 is now: 25                             var2 is now: -3                             var2 is now: 3                              var2 is now: 10
--var2 (25) evaluates to 24                 --var2 (-3) evaluates to -4                --var2 (3) evaluates to 2                   --var2 (10) evaluates to 9
        var2 is now: 24                             var2 is now: -4                             var2 is now: 2                              var2 is now: 9
```

uint8_t

```
please enter 2 uint8_t values: 6 3

6 + 3 = 9
6 - 3 = 3
6 * 3 = 18
6 / 3 = 2
6 % 3 = 0
6 << 3 = 48
6 >> 3 = 0
6 & 3 = 2
6 | 3 = 7
6 && 3 = 1
6 || 3 = 1
var1++ (6) evaluates to 6
        var1 is now: 7
var1-- (7) evaluates to 7
        var1 is now: 6
++var2 (3) evaluates to 4
        var2 is now: 4
--var2 (4) evaluates to 3
        var2 is now: 3


please enter 2 uint8_t values: 16 25

16 + 25 = 41
16 - 25 = 247
16 * 25 = 144
16 / 25 = 0
16 % 25 = 16
16 << 25 = 0
16 >> 25 = 0
16 & 25 = 16
16 | 25 = 25
16 && 25 = 1
16 || 25 = 1
var1++ (16) evaluates to 16
        var1 is now: 17
var1-- (17) evaluates to 17
        var1 is now: 16
++var2 (25) evaluates to 26
        var2 is now: 26
--var2 (26) evaluates to 25
        var2 is now: 25
```

```
please enter 2 uint8_t values: 240 25

240 + 25 = 9
240 - 25 = 215
240 * 25 = 112
240 / 25 = 9
240 % 25 = 15
240 << 25 = 0
240 >> 25 = 0
240 & 25 = 16
240 | 25 = 249
240 && 25 = 1
240 || 25 = 1
var1++ (240) evaluates to 240
        var1 is now: 241
var1-- (241) evaluates to 241
        var1 is now: 240
++var2 (25) evaluates to 26
        var2 is now: 26
--var2 (26) evaluates to 25
        var2 is now: 25


please enter 2 uint8_t values: 25 240

25 + 240 = 9
25 - 240 = 41
25 * 240 = 112
25 / 240 = 0
25 % 240 = 25
25 << 240 = 0
25 >> 240 = 0
25 & 240 = 16
25 | 240 = 249
25 && 240 = 1
25 || 240 = 1
var1++ (25) evaluates to 25
        var1 is now: 26
var1-- (26) evaluates to 26
        var1 is now: 25
++var2 (240) evaluates to 241
        var2 is now: 241
--var2 (241) evaluates to 240
        var2 is now: 240
```

```
please enter 2 uint8_t values: 5 5

5 + 5 = 10
5 - 5 = 0
5 * 5 = 25
5 / 5 = 1
5 % 5 = 0
5 << 5 = 160
5 >> 5 = 0
5 & 5 = 5
5 | 5 = 5
5 && 5 = 1
5 || 5 = 1
var1++ (5) evaluates to 5
        var1 is now: 6
var1-- (6) evaluates to 6
        var1 is now: 5
++var2 (5) evaluates to 6
        var2 is now: 6
--var2 (6) evaluates to 5
        var2 is now: 5


please enter 2 uint8_t values: 95 2

95 + 2 = 97
95 - 2 = 93
95 * 2 = 190
95 / 2 = 47
95 % 2 = 1
95 << 2 = 124
95 >> 2 = 23
95 & 2 = 2
95 | 2 = 95
95 && 2 = 1
95 || 2 = 1
var1++ (95) evaluates to 95
        var1 is now: 96
var1-- (96) evaluates to 96
        var1 is now: 95
++var2 (2) evaluates to 3
        var2 is now: 3
--var2 (3) evaluates to 2
        var2 is now: 2
```

```
please enter 2 uint8_t values: 60 1

60 + 1 = 61
60 - 1 = 59
60 * 1 = 60
60 / 1 = 60
60 % 1 = 0
60 << 1 = 120
60 >> 1 = 30
60 & 1 = 0
60 | 1 = 61
60 && 1 = 1
60 || 1 = 1
var1++ (60) evaluates to 60
        var1 is now: 61
var1-- (61) evaluates to 61
        var1 is now: 60
++var2 (1) evaluates to 2
        var2 is now: 2
--var2 (2) evaluates to 1
        var2 is now: 1


please enter 2 uint8_t values: 300 2

44 + 2 = 46
44 - 2 = 42
44 * 2 = 88
44 / 2 = 22
44 % 2 = 0
44 << 2 = 176
44 >> 2 = 11
44 & 2 = 0
44 | 2 = 46
44 && 2 = 1
44 || 2 = 1
var1++ (44) evaluates to 44
        var1 is now: 45
var1-- (45) evaluates to 45
        var1 is now: 44
++var2 (2) evaluates to 3
        var2 is now: 3
--var2 (3) evaluates to 2
        var2 is now: 2
```