C_21 -> operator Pricedence and Associativity

operator Prucedence [sou same preceden	JAmust	unt Priore
(Postfin)	$12 \rightarrow R$	1
(+ Prefix) + -! ~ * & sign of (typi)	R->al	1 2
* / 1.	$L \rightarrow R$	
	L->R	4
the plant of plan	L→R	5
L >>	L>R	6
2 4= > >= !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	L→R	7
==!=	L→R	8
1	L→R	9
1910 4 2 + 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	L→R	10
To a glast a de a function partir proper	L>R	11
1;	$L\rightarrow R$	12
	$R \rightarrow L$	13
?:	$R \rightarrow L$	14
2 4 4910 (2014 +4		15

Ento

9=2+3 # 4

2+12 => (14)

 $3*4 \Rightarrow 12/2 \Rightarrow 6*12 \Rightarrow 72$ $2+72 \Rightarrow (74)$

En @ a=2+3 *4/2 * 12 37

Same precidences. So use associativity

Ex (3)
$$a = 3 * 4 * 1.5 / 2,$$

$$\Rightarrow 12 * 1.5 / 2$$

$$\Rightarrow 12 * 1.5 / 2$$

$$\Rightarrow 12 / 2 \Rightarrow 0$$

$$= 3 * 4 + 5 * 6.$$

$$\Rightarrow 12 + 30$$

$$\Rightarrow 12 + 30$$

$$\Rightarrow 162$$

```
#include <stdio.h>
 2
      #include <stdlib.h>
 3
 4
      int main()
 5
    □ {
 6
          int a;
 7
          a=2+3*4;
          printf("%d",a);
 8
 9
10
```

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```
14
Process returned 0 (0x0) execution time : 0.026 s
Press any key to continue.
-
```

```
#include <stdio.h>
 1
      #include <stdlib.h>
 2
 3
      int main()
 4
 5
    □ {
 6
          int a;
7
          a=2+3*4/2*12;
          //3*4=12
 8
 9
          //12/2=6
          //6*12=72
10
          //2+72=74
11
          printf("%d",a);
12
13
14
```

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```
74
Process returned 0 (0x0) execution time : 0.031 s
Press any key to continue.
```

```
#include <stdio.h>
 1
      #include <stdlib.h>
 2
 3
      int main()
 4
 5
 6
          int a;
 7
          a=3*4%5/2;
 8
          //same precedence so left to right
 9
          //3*4=12
          //12%5=2
10
          // 2/2=1
11
          printf("%d",a);
12
13
14
```

```
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1
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.

■
```

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
 3
      int main()
 4
 5
    □ {
 6
          int a;
 7
          a=3*(4%5)/2;
 8
          // () have higher priority
 9
          //(4%5)=4
          //3*4/2 same precedence so left to right
10
11
          //3*4=12
12
          //12/2=6
          printf("%d",a);
13
14
15
```

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```
6
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

```
#include <stdio.h>
 1
      #include <stdlib.h>
 2
 3
 4
      int main()
 5
 6
       int a;
7
       a=3*4+5*6;
8
       //3*4=12
9
       //5*6=30
10
       //12+30=42
       printf("%d",a);
11
12
13
```

```
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42
Process returned 0 (0x0) execution time : 0.031 s
Press any key to continue.
-
```

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
 3
 4
      int main()
5
   □ {
 6
         int a;
 7
         a=3*(4+5)*6;
 8
         //(4+5)=9
         //3*9*6
 9
         //27*6
10
11
         //
         printf("%d",a);
12
13
14
```

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```
162
Process returned 0 (0x0) execution time : 0.042 s
Press any key to continue.
-
```

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
 3
 4
      int main()
5
    □ {
 6
          int a=0, b=1, c=-1, d;
 7
          d=--a*(5+b)/2-c++;
 8
          // --a * (5+b) / 2 - c++
          // --a * (5+1) / 2 - c++
 9
          // --a * 6 / 2 - -1
10
          // --a * 6 / 2 + 1
11
          // -1 * 6 / 2 + 1
12
          // -6 / 2 + 1
13
          // -3 + 1
14
          //-2 value of d
15
          printf("%d\n",d);
16
          printf("%d\n",c);
17
18
          printf("%d\n",b);
          printf("%d\n",a);
19
20
```

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```
-2
0
1
-1
Process returned 0 (0x0) execution time : 0.048 s
Press any key to continue.
```