

OnlineGDB beta
online compiler and debugger for c/c++

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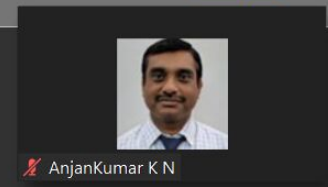
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main.c

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Language C

```
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2
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5 C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include<stdio.h>
10 int main()
11 {
12
13     unsigned char a=22;
14
15
16     printf("a<<1 = %d\n", a<<1);
17
18
19
20     return 0;
21 }
```



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input

a<<1 = 44

...Program finished with exit code 0
Press ENTER to exit console.

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7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int x,num=22;
14     x=num<<1;
15     printf("%d \n",x);
16     x=num<<2;
17     printf("%d \n",x);
18     x=num>>1;
19     printf("%d \n",x);
20     x=num>>2;
21     printf("%d \n",x);
22     return 0;
23 }
```

input

```
44
88
11
5
...Program finished with exit code 0
Press ENTER to exit console.
```



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day1 increment or decrement.c

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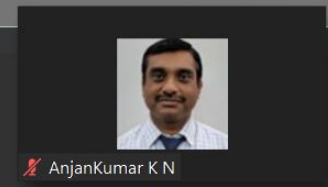


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Language C

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5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS  
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 #include <stdio.h>  
10 int main()  
11 {  
12     int a = 10, b = 100;  
13     float c = 10.5, d = 100.5;  
14     printf("++a = %d \n", ++a);  
15     printf("--b = %d \n", --b);  
16     printf("++c = %f \n", ++c);  
17     printf("--d = %f \n", --d);  
18     return 0;  
19 }  
20
```



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input

```
++a = 11  
--b = 99  
++c = 11.500000  
--d = 99.500000  
...Program finished with exit code 0  
sole.
```

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5 C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, ProLog.

6 Code, Compile, Run and Debug online from anywhere in world.

7

8 *****/

9 #include<stdio.h>

10 int main()

11 {

12 int a = 5, b = 5, c = 10;

13 printf("%d == %d is %d \n", a, b, a == b);

14 printf("%d == %d is %d \n", a, c, a == c);

15 printf("%d > %d is %d \n", a, b, a > b);

16 printf("%d > %d is %d \n", a, c, a > c);

17 printf("%d < %d is %d \n", a, b, a < b);

18 printf("%d < %d is %d \n", a, c, a < c);

19 printf("%d != %d is %d \n", a, b, a != b);

20 printf("%d != %d is %d \n", a, c, a != c);

21 printf("%d >= %d is %d \n", a, b, a >= b);

22 printf("%d >= %d is %d \n", a, c, a >= c);

23 printf("%d <= %d is %d \n", a, b, a <= b);

24 printf("%d <= %d is %d \n", a, c, a <= c);

25 return 0;

26 }

27

input

5 >= 5 is 1

5 >= 10 is 0

5 <= 5 is 1

5 <= 10 is 1

...Program finished with exit code 0

Press ENTER to exit console.

Language C

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Windows taskbar with icons for File Explorer, Mail, Chrome, VS Code, etc.

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Language C

main.c

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5 C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13
14     int n1 = 5, n2 = 10, n3 = 15, max;
15
16
17     max = (n1 > n2) ? (n1 > n3 ? n1 : n3) : (n2 > n3 ? n2 : n3);
18
19
20     printf("Largest number among those %d, %d and %d is %d\n", n1, n2, n3, max);
21
22     return 0;
23 }
24
```

input

Largest number among those 5, 10 and 15 is 15

...Program finished with exit code 0

Press ENTER to exit console.

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Question - 5

num = 22

binary equivalent of 22

$$\begin{array}{r} 2 \overline{) 22} \\ 2 \overline{) 11} - 0 \\ 2 \overline{) 5} - 1 \\ 2 \overline{) 2} - 1 \\ 2 \overline{) 0} - 0 \\ 0 - 0 \end{array}$$

$$22_{(10)} = 10110_{(2)}$$

LEFT SHIFT OPERATOR
1) num << 1

$$\therefore 10110 << 1$$

$$\begin{aligned} \therefore 101100_{(2)} &= 2^0 \times 0 + 2^1 \times 0 + 2^2 \times 1 + 2^3 \times 1 + 2^4 \times 0 + 2^5 \times 1 \\ &= 4 + 8 + 32 \\ &= 44 \end{aligned}$$

2) num << 2

$$10110 << 2$$

$$\begin{aligned} \Rightarrow 1011000 &= 2^0 \times 0 + 2^1 \times 0 + 2^2 \times 0 + 2^3 \times 1 + 2^4 \times 1 + 2^5 \times 0 \\ &\quad + 2^6 \times 1 \\ &= 88 \end{aligned}$$

∴ The left shift of num is, $num \times 2^n$

$$\therefore 22 << 1 = 22 \times 2^1 = 44$$

$$22 << 2 = 22 \times 2^2 = 88$$

2> RIGHT SHIFT.

$22 \gg 1$

$\Rightarrow 10110 \gg 1$

$$\begin{aligned} &= \overset{4}{0}1011_{(2)} = 2^0 \times 1 + 2^1 \times 1 + 2^2 \times 0 + 2^3 \times 1 + 2^4 \times 0 \\ &= 1 + 2 + 0 + 8 + 0 \\ &= 11 \\ &= \underline{\underline{11}} \end{aligned}$$

$22 \gg 2$

$\Rightarrow 10110 \gg 2$

$$\begin{aligned} 00101.1_{(2)} &= 2^0 \times 1 + 2^1 \times 0 + 2^2 \times 1 + 0 + 0 + 2^{-1} \times 1 \\ &= 1 + 4 \\ &= 5.5 \text{ or } 5 \end{aligned}$$

Or Right shift of $a \gg n$ is $a/2^n$

$$\therefore 22 \gg 1 = 22/2^1 = 11$$

$$22 \gg 2 = 22/2^2 = 5.5 \text{ or } 5$$