```
File Edit Run Compile Project Options Debug
Line 11 Col 40 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3,b;
clrscr();
b = a++ + a++ + a++;
printf("a=%d, b=%d\n",a,b); /* a=6, b=9 */
a=3;
b = ++a + ++a + ++a;
printf("a=%d, b=%d",a,b); /* a=6, b=18_ */
getch();
}
```

a=3

b = a++ + a++ + a++; priority: +, =, a++ 1. b = a + a + a ==> 3 + 3 + 3 2. b = 9 3. a++ ==> a=4, a++ ==> a=5, a++ ==> a=6 b = ++a + priority: 1. ++a==> 2. b = a + 3. b = 18

a=3

```
a=3
b = ++a + a++ * ++a;
priority: ++a, * , +, =, a++
1. ++a==>a=4, ++a==>a=5
2. b = a + a*a ==> 5 + 5*5
3. b = 5 + 25
4. b = 30
5. a++ ==> a=6
```

```
File Edit Run Compile Project Options Debug
Line 9 Col 39 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=3,b=2;
clrscr();
a = a++ + ++b;
b = ++a + b++;
printf("a=%d, b=%d",a,b); /* a=8, b=12 */
getch();
}

**Beta Compile Project Options Debug
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```

```
Run Compile Project Options
   File
 include<stdio.h>
include<conio.h>
void main()
int a=30;
clrscr();
printf("a=%d",a); /* a=32 */
getch();
        - R (1) M -1
 a = 30
 a++/2;
 priority: /, a++
 1. a/2 ==> 30/2=15 [ 15 not stored in a because of = not used i.e. a = 30 ]
 2. a++ ==> a=31
 printf(a) ==> 31
 ++a/2;
 priority: ++a, /
 1. ++a ==> a=32
 2. a/2 ==> 32/2=16 [ 16 not stored in a because of = not used i.e. a=32 ]
 printf(a) ==> a=32
```

```
File Edit Run Compile Project Options Debug
Line 10 Col 25 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=30;
clrscr();
a=a++/2;
printf("a=%d\n",a); /* a=16 */
a=++a/2;
printf("a=%d",a); /* a=8_ */
getch();
}
```

```
Edit Run Compile Project Options
  File
              Col 15 Insert Indent Tab Fill Unindent
include<stdio.h>
finclude<conio.h>
void main()
int a=30;
getch();
a = 30
 printf("a=%d\n", a++/2); priority: /, printf, a++
 1. a/2 ==> 30/2 = 15
 2. printf(15) ==> 15 [ 15 printed not stored i.e. a=30 ]
 3. a++ ==> a=31
 printf("a=%d",++a/2); priority: ++a, /, printf
 1. ++a ==> a=32
 2. a/2 ==> 32/2=16
 3. printf(16) ==> 16 [ 16 printed not stored i.e. a=32 ]
 printf(a) ==> 32
```

```
File Edit Run Compile Project Options Debug
Line 8 Col 30 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=30;
clrscr();
printf("a=%d\n",a++); /* a=30 */
printf("a=%d\n",++a); /* a=32_ */
getch();
}
```

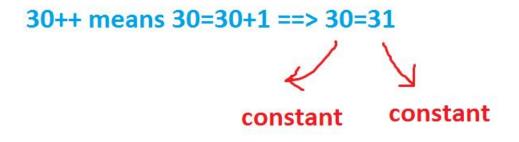
```
a=30

p(a++); priority: printf, a++
printf(a) ==> a=30
a++ ==> 31

p(++a); priority: ++a, printf
++a ==> a=32
printf(a) ==> 32
```

```
File Edit Run Compile Project Options Debug
Error: Lvalue required in function main
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("%d\n",30++); /* Error */
printf("%d\n",++31); /* Error */
getch();
}
```

a++ means a=a+1



Error

```
File Edit Run Compile Project Options Debug Error: Lvalue required in function main #include<stdio.h> #include<conio.h> void main() {    int a=2, b=7, c;    clrscr();    c = (a++ + ++b)++; /* Error */ printf("a=\overline{\pi}d, b=\overline{\pi}d, c=\overline{\pi}d",a,b,c);    getch(); }
```

```
File Edit Run Compile Project Options Debug
      Line 12 Col 25 Insert Indent Tab Fill Unindent
#include<stdio.h>
#include<conio.h>
void main()
int a,b,c,d;
clrscr();
a=b=c=2;
d = a++´>=2 && ++b != c++;
printf("a=%d, b=%d, c=%d, d=%d",a,b,c,d);
getch();
\frac{1}{2} a=3, b=3, c=3, d=1 */_
        _____ ^ ₹ 10 (4) and 10:25
   a=2 b=2 c=2
                             &&
   d =
                             &&
```

$$a=2 \quad b=2 \quad c=2$$

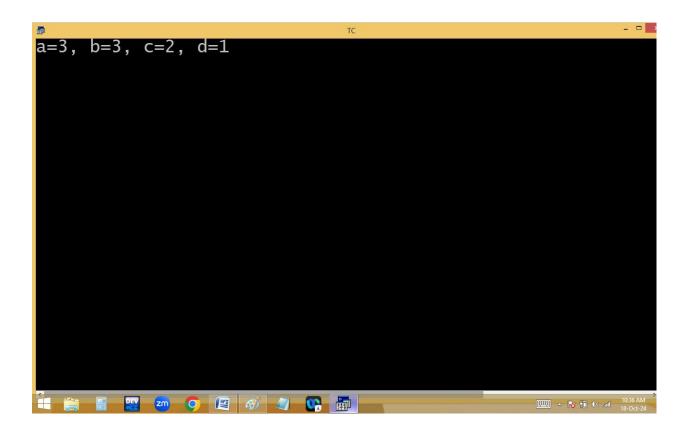
$$d = \underbrace{a++} >= \underbrace{b++} \quad \&\& \quad \underbrace{++b} \quad != \quad c++;}_{A} >= \underbrace{a}_{A} \qquad \underbrace{-1}_{A} = \underbrace{a}_{A} = \underbrace{-1}_{A} = \underbrace{-1}$$

a=2 b=2 c=2
$$\sqrt{\frac{3}{3}}$$

d = a++ >= ++b && ++b != c++;
 $\sqrt{\frac{1}{3}}$ Not checked

Note: In && operation when left exp false, right exp not checked

```
File Edit Run Compile Project Options Debug
Line 12 Col 22 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=2;
d = a++ >= b++ || ++b != c++;
printf("a=%d, b=%d, c=%d, d=%d",a,b,c,d);
getch();
}
/* a=3, b=3, c=2, d=1 */
```



a=2 b=2 c=2
$$\sqrt{\frac{3}{3}}$$
 d = a++ >=b++ || ++b != c++; $\sqrt{\frac{3}{3}}$ Not checked

Note: In || operation when left exp true, right exp not checked

```
File Edit Run Compile Project Options Debug
                                   = Edit ==
                Col 12 Insert Indent Tab Fill Unindent
      Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=0, b=1, c=2, d;
clrscr();

d = a++ || ++b || --c;

printf("a=%d, b=%d, c=%d, d=%d",a,b,c,d);
getch();
/* a=1, b=2<u>,</u> c=2, d=1 */
       _____ ^ 10:41 €
                         c=2 🗸
               b=1
   a=0
   d =
                          ++b || --c;
                                       Not checked
           0
```

```
File Edit Run Compile Project Options Debug
                                       = Edit ==
                   Col 12 Insert Indent Tab Fill Unindent
      Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=0, b=1, c=2, d;
clrscr();

d = a++ && ++b || --c;

printf("a=%d, b=%d, c=%d, d=%d",a,b,c,d);
getch();
/* a=1, b=1, c=1, d=1 */
          zm 🔘 🕮 🧭 🥒 😱 📻
                                                   _____ △ [🐼 🟗 ♠) and 10:45 Å
   a=0
             0
```

```
File Edit Run Compile Project Options Debug
                                   = Edit ==
                Col 22 Insert Indent Tab Fill Unindent
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int a=0,b=1,c=2,d;
clrscr();

d = a++ && ++b && --c;

printf("a=%d, b=%d, c=%d, d=%d",a,b,c,d);
getch();
/* a=1, b=1, c=2, d=0 */
       ■■■ ^ 😼 🛍 🕪 and 10:48 AM
                          c=2 🗸
               b=1 🗸
  a=0
                            ++b &&
```