

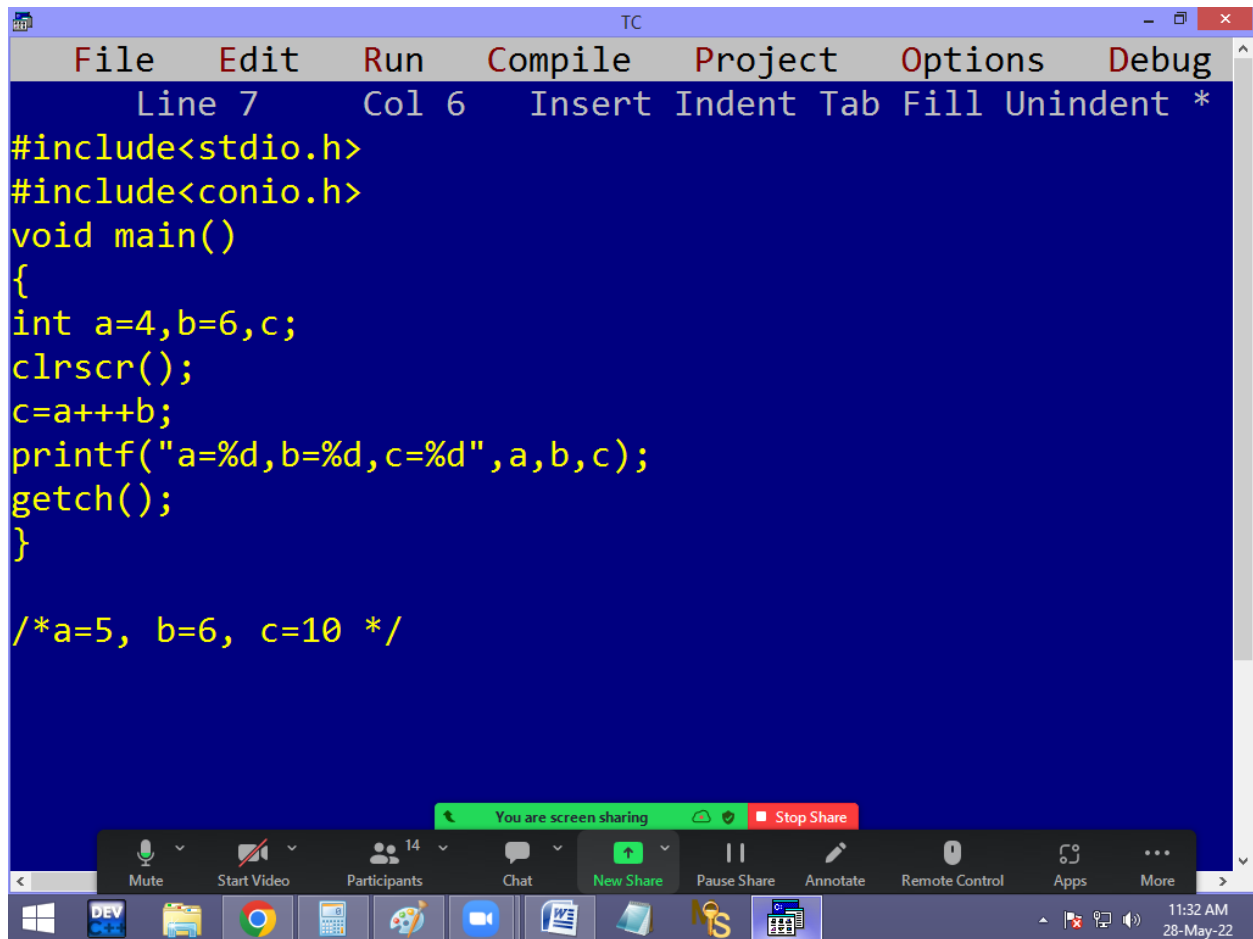
```
TC
File Edit Run Compile Project Options Debug
Line 11 Col 1 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=4;
clrscr();
printf("%d,%d,%d,%d,%d\n",++a,a++,a--,--a,++a);
printf("%d,%d,%d,%d,%d",++a,a*10,a=10,a++,++a);
getch();
}

/*
5,3,4,4,5
11,100,10,6,6
Note: In printf execution order is right to left */
```

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11:27 AM 28-May-22

a=4	5	4	3	4	<u>5</u>	
5	4	3	4	5	a value	
++a	a++	a--	--a	++a		
5	3	4	4	5	← output	
				↓		
11	10	10	7	6	a value	
++a	a*10	a=10	a++	++a		
11	100	10	6	6	output	



```
TC
File Edit Run Compile Project Options Debug
Line 7 Col 6 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=4,b=6,c;
clrscr();
c=a+++b;
printf("a=%d,b=%d,c=%d",a,b,c);
getch();
}

/*a=5, b=6, c=10 */
```

a=4, b=6, c;

c = a+++b; priority: +, =, a++

c = a + b ==> 4 + 6

c = 10

a++ ==> a=5

```
TC
File Edit Run Compile Project Options Debug
Line 9 Col 3 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=5,b;
clrscr();
b=a++>= printf("Dilse");
printf("%d%d",a,b);
getch();
}

/* Dilse61 */
```

a=5

6 ✓

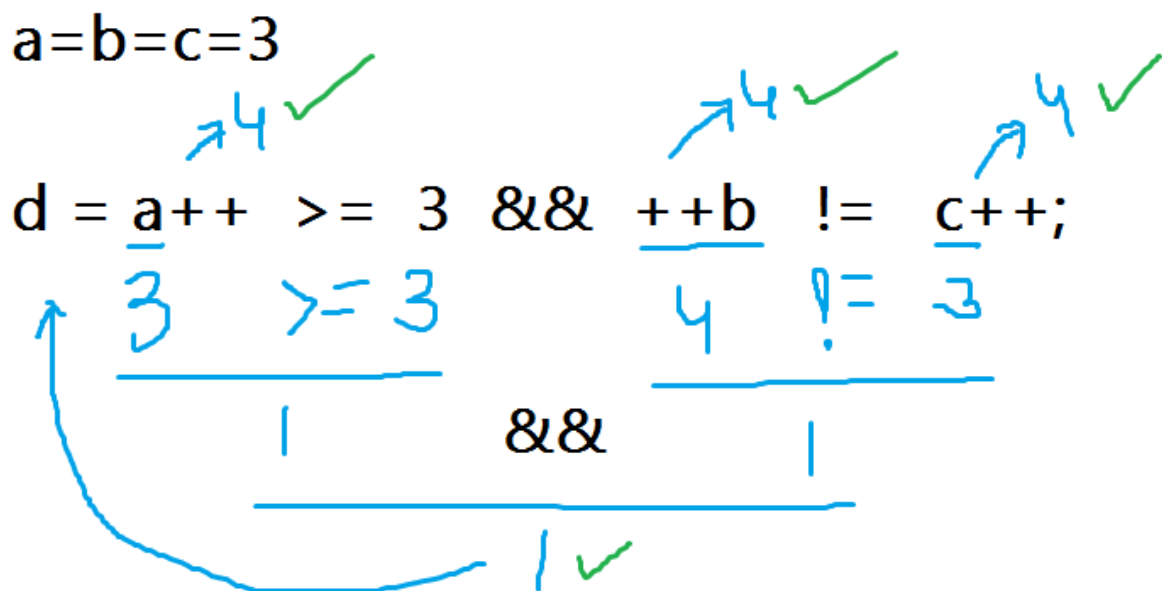
b=a++>=p("Dilse")

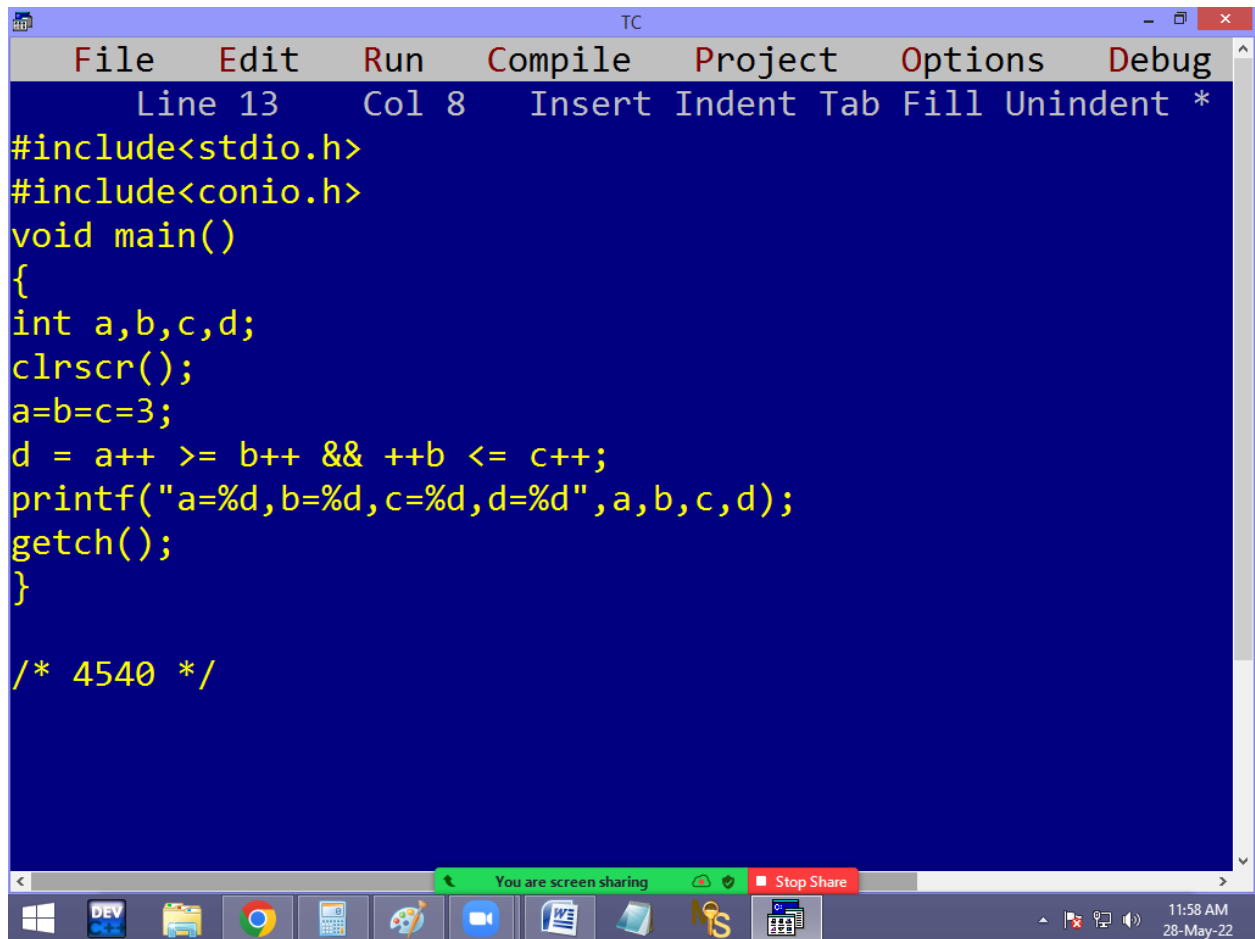
5 >= 5 ✓

1 ✓

```
TC
File Edit Run Compile Project Options Debug
Line 13 Col 11 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ >= 3 && ++b != c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

/* 4441 */
```





```
TC
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Line 13 Col 8 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ >= b++ && ++b <= c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

/* 4540 */
```

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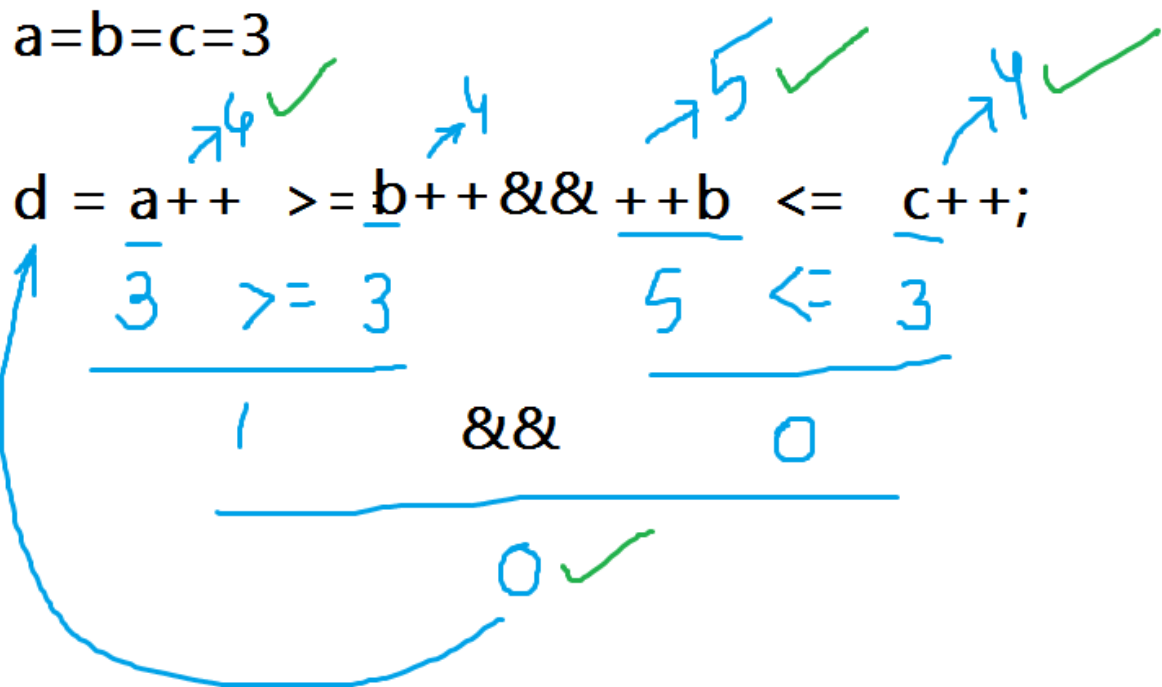
a=b=c=3

d = a++ >= b++ && ++b <= c++;

3 >= 3 5 <= 3

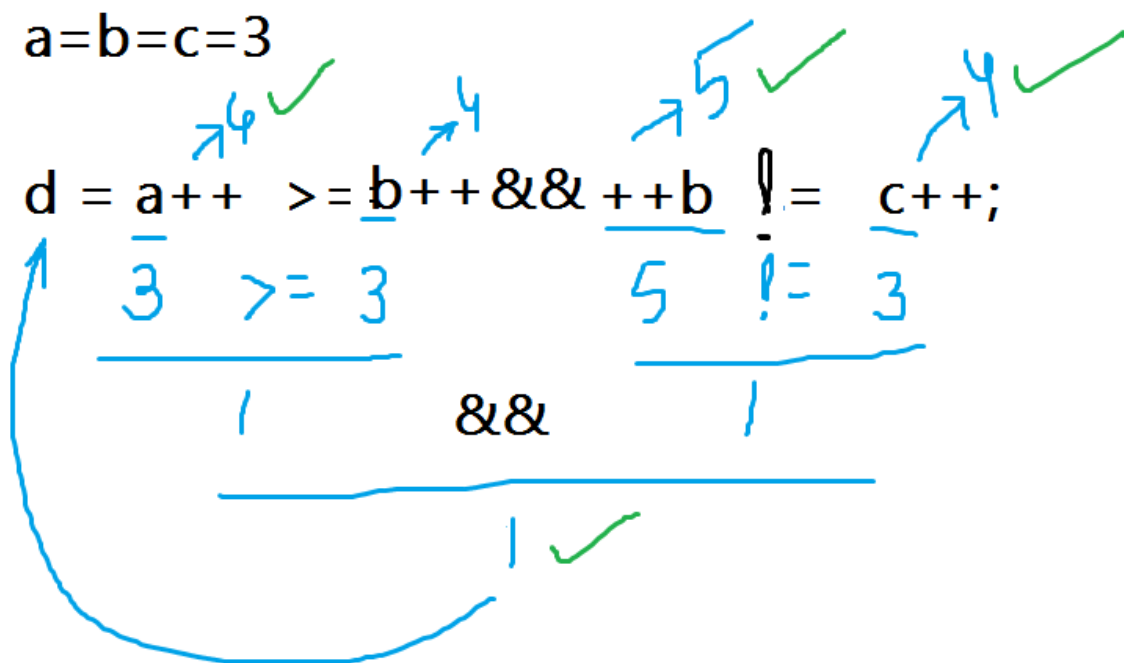
1 && 0

0 ✓



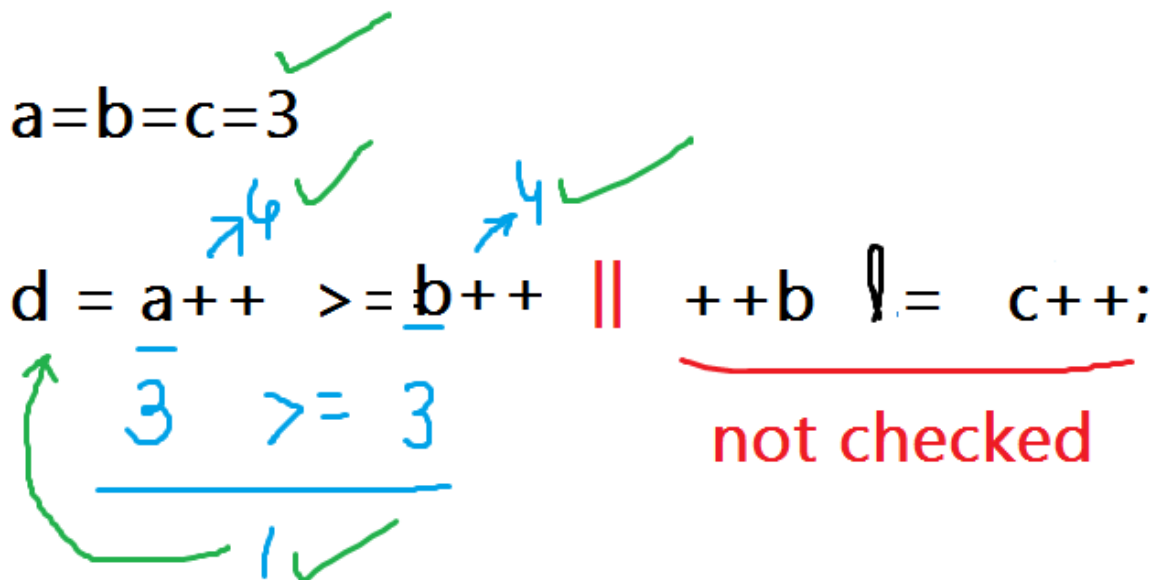
```
TC
File Edit Run Compile Project Options Debug
Line 13 Col 8 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ >= b++ && ++b != c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

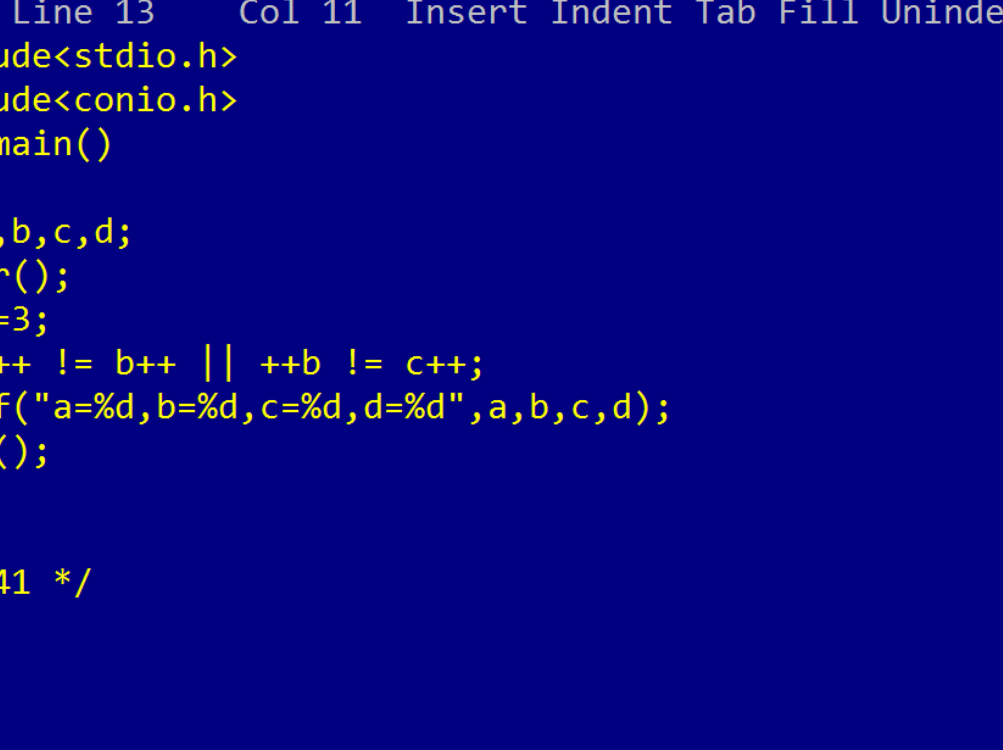
/* 4541_*/
```




```
TC
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Line 15 Col 29 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ >= b++ || ++b != c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

/* 4431
Note: In || operation when left expression true then
right expression not checked_*/
```



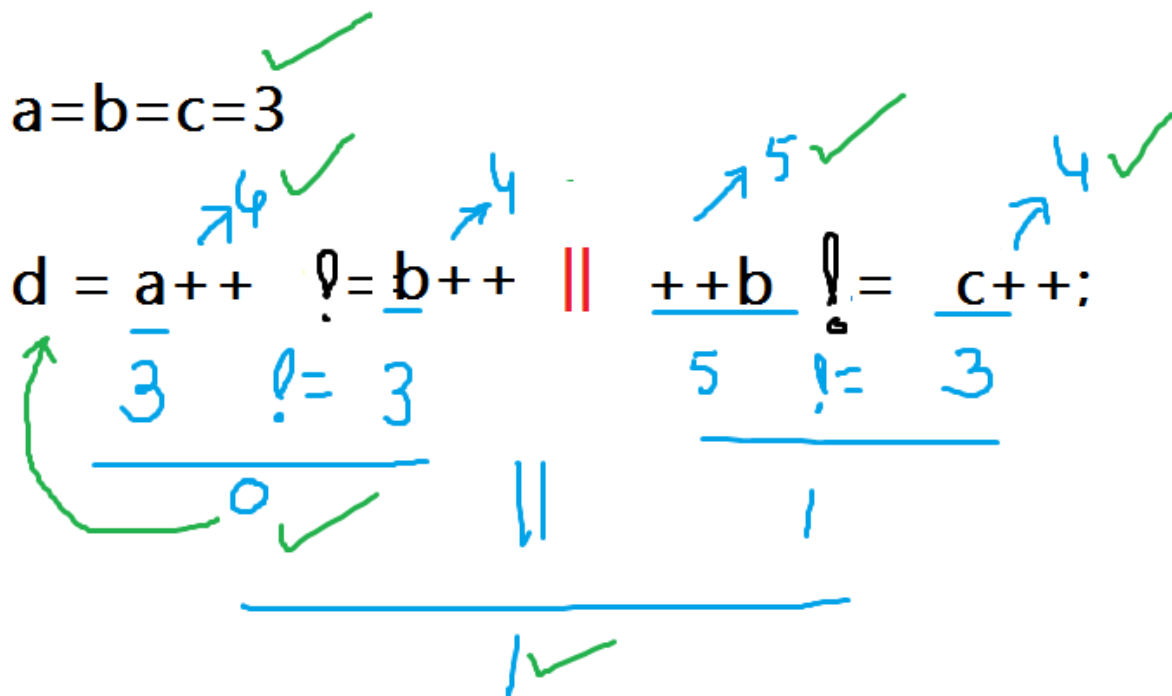


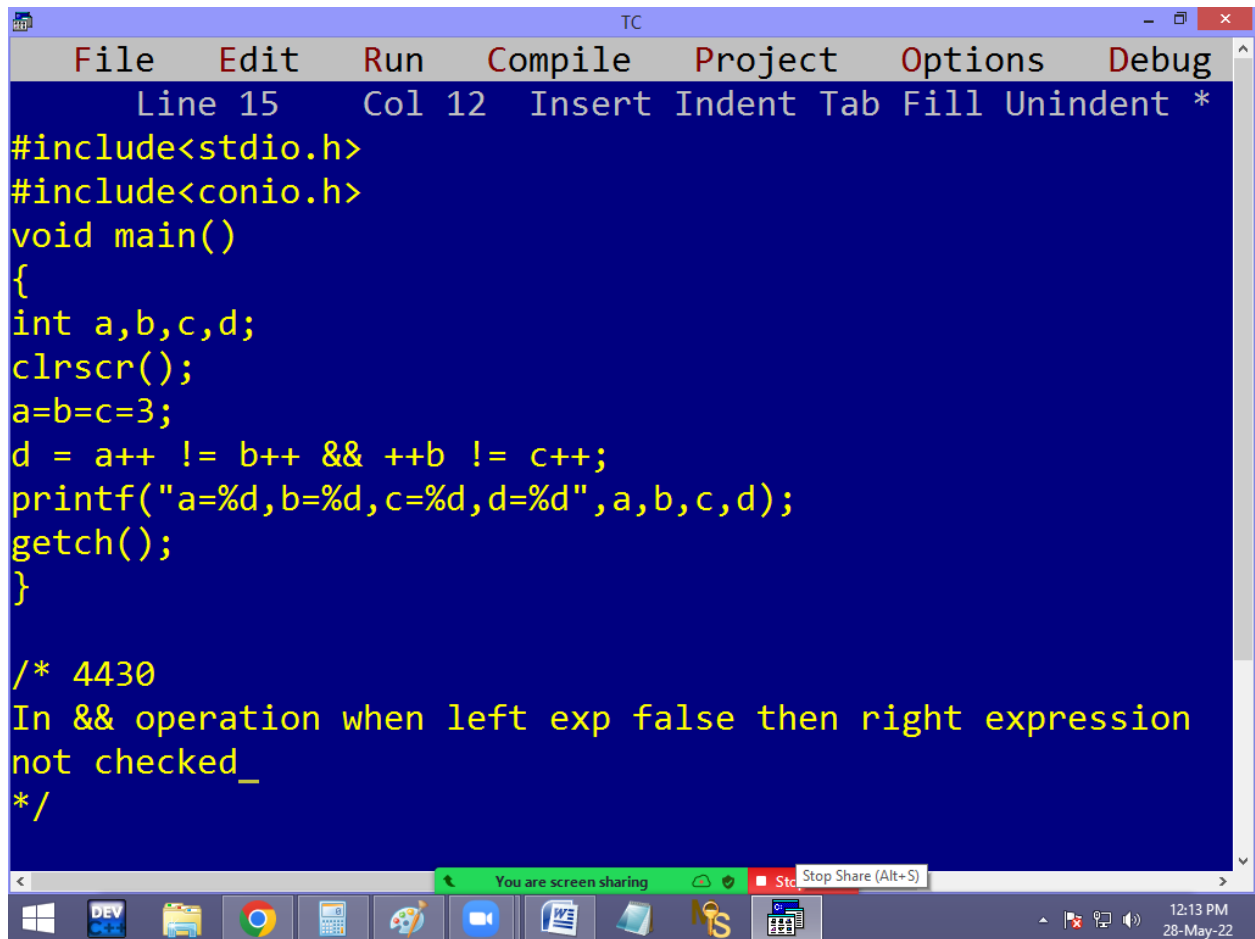
```
TC
File Edit Run Compile Project Options Debug
Line 13 Col 11 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ != b++ || ++b != c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

/* 4541 */
```

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```
TC
File Edit Run Compile Project Options Debug
Line 15 Col 12 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a,b,c,d;
clrscr();
a=b=c=3;
d = a++ != b++ && ++b != c++;
printf("a=%d,b=%d,c=%d,d=%d",a,b,c,d);
getch();
}

/* 4430
In && operation when left exp false then right expression
not checked_
*/
```

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$a=b=c=3$ ✓

$d = \underline{a}++ \quad \underline{b}++ \quad \&\& ++b \quad \underline{c}++;$ ✓ ✓ ✓

$\underline{3} \quad \underline{3} \quad \underline{3}$ ✓

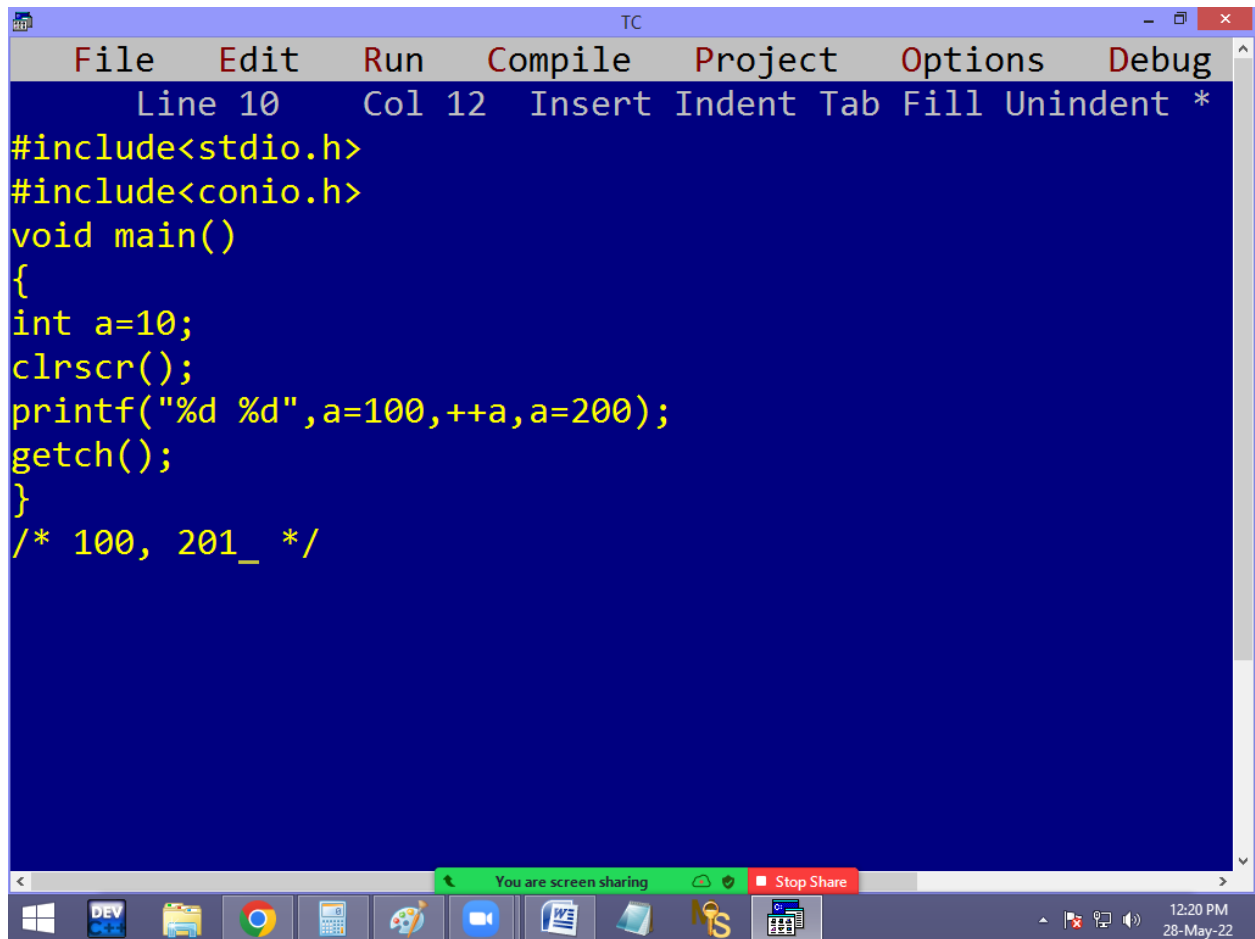
$\underline{\quad} \quad \underline{\quad} \quad \underline{\quad}$ ✓

Not Checked

```
TC
File Edit Run Compile Project Options Debug
Line 10 Col 11 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
clrscr();
printf("%d",++a, a=100);
getch();
}
/* 101 */_
```

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TC

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Line 10 Col 12 Insert Indent Tab Fill Unindent *

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
clrscr();
printf("%d %d",a=100,++a,a=200);
getch();
}
/* 100, 201_ */
```

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```

TC
File Edit Run Compile Project Options Debug
Line 12 Col 38 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
clrscr();
a = a++ + ++a;
printf("%d\n",a);
a=10;
printf("%d\n", a++ + ++a);
a=10;
printf("%d, %d", a++ + ++a, ++a + a++);
getch();
}

```

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a=10

a=a++ + ++a;

priority: ++a, +, =, a++

1. ++a ==> a=11 a=10

2. a = a+a==>11+11

3. a = 22

4. a++ ==> a=23

a=~~10~~ + 12

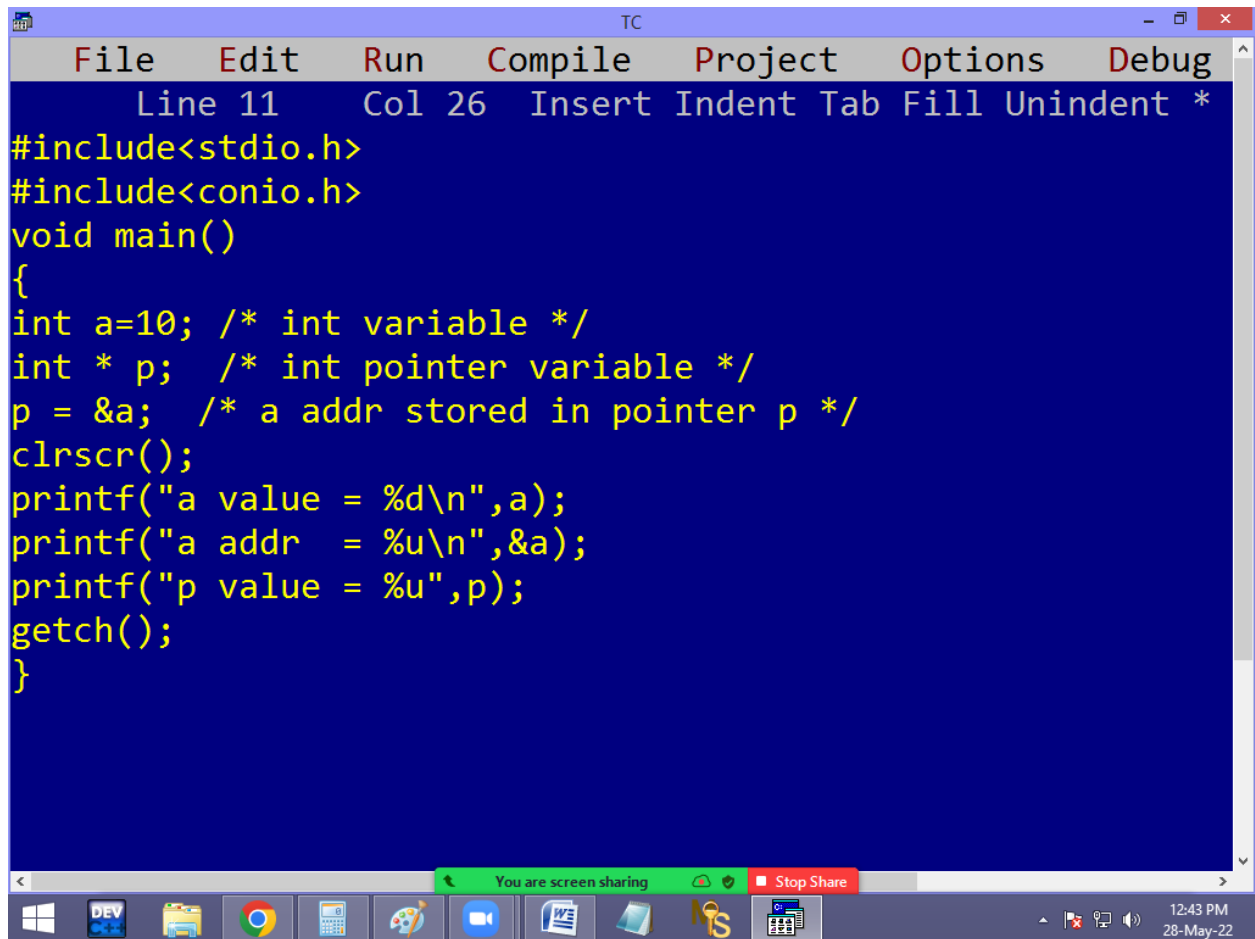
p("%d", a++ + ++a);

10 + 12

13 14 22 11 12
 12 + 14 11 + 11
26 22 ✓

Address operators:

1. & - address of the variable
2. * - pointer → addr of another variable



```
TC
File Edit Run Compile Project Options Debug
Line 11 Col 26 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10; /* int variable */
int * p; /* int pointer variable */
p = &a; /* a addr stored in pointer p */
clrscr();
printf("a value = %d\n",a);
printf("a addr = %u\n",&a);
printf("p value = %u",p);
getch();
}
```

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```
TC
a value = 10
a addr  = 65504
p value = 65504_
```

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