



You

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Programiz

C Online Compiler

Programiz PRO

main.c

Output



```
1 // Online C compiler to run C program
   online
2 #include <stdio.h>
3
4 int main() {
5     // Write C code here
6
7     int a,b;
8     printf("enter a value a:");
9     scanf("%d",&a);
10    printf("enter a value b:");
11    scanf("%d",&b);
12    printf("%d\n",a&b);
13    printf("%d\n",a<<b);
14    printf("%d\n",a>>b);
15    printf("%d\n",a-b);
16    printf("%d\n",a^b); |
```

17 return 0;

18 }

19

8:31 pm ✓

6:36 ↗

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Run

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3:31 pm ✓

6:02

LTE 0 KB/s 4G+ 74%

X V

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main.c

Output



enter a value a:6

enter a value b:5

4

192

0

1

3

==== Code Execution Successful ===

6:39 ↗

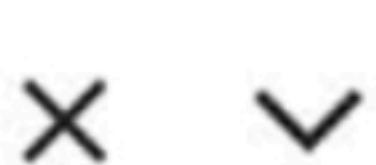
Vo
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← You
Just now



6:32

No Volte 0 KB/s 4G+ .lll 70%



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main.c

Output



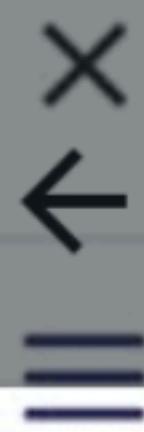
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6     int a,b;
7     printf("enter a value a:");
8     scanf("%d",&a);
9     printf("enter a value b:");
10    scanf("%d",&b);
11    printf("%d\n",a<b);
12    printf("%d\n",a>b);
13    printf("%d\n",a<=b);
14    printf("%d\n",a>=b);
15    printf("%d\n",a==b);
16    printf("%d\n",a!=b);|
17    return 0;
18 }
```



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6:40 ↗

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Output



enter a value a:10

enter a value b:20

1

0

1

0

0

1

==== Code Execution Successful ===



3:31 pm ✓

Increment and decrements

1. what is the value of x after the following code executes?

```
int x = 5;  
x++;
```

- A) 4
- B) 5
- C) 6
- D) 7

Explanation : x++ increases x by 1 after the statement

2. what is the difference between ++x and x++?

- A) NO difference
- B) ++x increments after use, x++ increments before use
- C) ++x increments before use, x++ increments after use
- D) Both decrement

3. what will be the output of the following code?

```
int a = 5
```

```
printf ("%d", a++ + ++a);
```

- A) 11
- B) 12
- C) undefined behaviour
- D) 10

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Explanation: modifying a variable (or more) than once between sequence point causes undefined behaviour in C/C++.

4. what is the result of this code snippet,

`int x = 10;`

`int y = ++x;`

A) $x = 10, y = 10$

B) $x = 11, y = 10$

C) $x = 10, y = 11$

D) $x = 11, y = 11$

Explanation: `++x` increments first, then assigns the incremented value to `y`.

5. which of the following correctly represent post decrement operation,

A) `--x`

B) `x--`

C) `x-`

D) `x+-`

6. what are the values of `i` and `j`,

A) $i = 4, j = 12$

B) $i = 5, j = 12$

C) $i = 5, j = 15$

D) undefined behaviour

modifying `i` twice in one expression is undefined in C/C++.

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7. In which of the following languages
++ and -- operators do not exist?
 A) C
 B) C++
 C) Java
 D) Python

Explanation: Python does not support ++ or -- operators; it uses $x += 1$ or $x -= 1$ instead.

8. What will be the output of

```
int x = 7;
System.out.println (++x + x++);
```

A) 14
 B) 15
 C) 13
 D) 16

Explanation:

- $++x \rightarrow 8$
- $x++ \rightarrow$ use 8, then increment to 9
 $\text{sum} = 8+7 = 15$ (after increment $x=9$)

- 9) Which statement is true about increment operators?

- A) They can only be used with integers
 B) They can be used with variables only
 C) They can be used with constants
 D) They can be used with any expression

Explanation: You cannot increment a constant or expression directly like $++5$.

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- 10) What does this expression return in?

```
int a = 10;
```

```
int b = a+++++;
```

- A) 21

- B) 22

- C) 20

- D) undefined behaviour