BASIC C ELEMENTS

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OPERATORS

Help

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1. CHECK YOUR UNDERSTANDING (1/1 point)

Consider the following lines of C code:

```
int a = 1, b = 2, c = 3, d;

d = (a | b) + --c;
```

After executing this code, what will be the value of `d` in decimal?

- 3
- 4
- 5 ✔
- 6

EXPLANATION

The first operation is the bitwise OR of `a` and `b`. Assuming 8 bit values for simplicity, the result is 00000001 OR 00000010 = 00000011 (decimal 3). The variable `c` is then predecremented to 2. The result for `d` is then 3 + 2 = 5.

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Final Check | **Save** | Hide Answer | *You have used 1 of 2 submissions*

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2. CHECK YOUR UNDERSTANDING (1/1 point)

Consider the following lines of C code:

```
int u = 0, v = 1, w;

w = (u++ && v) & ++v;
```

After executing this code, what will be the value of `w` in decimal?

- (•) 0 ✔
- ( ) 1
- ( ) 2
- ( ) 3

EXPLANATION

Since `u` is postincremented, it's value of 0 is used in the expression `u++ && v`, which evaluates to 0 (FALSE && TRUE = FALSE). Variable `v` is preincremented to 2 before the bitwise AND with 0, which nonetheless results in 0.

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