



Curso Básico de C++

IDE Visual C++ Express Edition 2008

(Ejercicios I)

Operadores

1) Suponiendo los siguientes valores iniciales para las variables: $x = 2$; $y = 6$; $z = 9$; $r = 100$; $s = 10$; $a = 15$; $b = 3$. ¿Cuáles son los valores correctos en cada expresión?

- | | | |
|--------------------------|--------------------------------|---------------------------|
| a) $x += 10$; | c) $r /= 0$; | e) $z -= a*b$; |
| <input type="radio"/> 12 | <input type="radio"/> infinito | <input type="radio"/> -36 |
| <input type="radio"/> 10 | <input type="radio"/> 1 | <input type="radio"/> -18 |
| <input type="radio"/> 11 | <input type="radio"/> Error | <input type="radio"/> 36 |
| b) $s *= b$; | d) $y += x + 10$; | |
| <input type="radio"/> 9 | <input type="radio"/> 8 | |
| <input type="radio"/> 13 | <input type="radio"/> 12 | |
| <input type="radio"/> 30 | <input type="radio"/> 18 | |

2) Usar expresiones equivalentes para las siguientes, usando operadores mixtos.

- | | |
|--------------------------------------|---------------------------------------|
| a) $x = 10 + x - y$; | c) $y = y / (10 + x)$; |
| <input type="radio"/> $x += 10 - y$ | <input type="radio"/> $y /= 10 * x$ |
| <input type="radio"/> $x -= y + 10$ | <input type="radio"/> $y /= 10 + y/x$ |
| <input type="radio"/> $x += 10 + y$ | <input type="radio"/> $y /= 10 + x$ |
| b) $r = 100 * r$; | d) $z = 3 * x + 6$; |
| <input type="radio"/> $r *= 100 * r$ | <input type="radio"/> $z += 6$ |
| <input type="radio"/> $r *= 100$ | <input type="radio"/> $z *= 3$ |
| <input type="radio"/> $r += 100$ | <input type="radio"/> no es posible |

3) Evaluar las siguientes expresiones. Siendo: $x = 10$; $y = 20$; $z = 30$;

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|---|---|
| a) $z = x - y$, $t = z - y$; | d) $!(x + y < z)$ |
| <input type="radio"/> $z = -10$, $t = -30$ | <input type="radio"/> true |
| <input type="radio"/> $t = 10$ | <input type="radio"/> false |
| <input type="radio"/> $z = 30$, $t = -30$ | |
| b) $(x < 10) \ \&\& \ (y > 15)$ | e) $(x + y != z) \ \&\& \ (1 / (z - x - y) != 1)$ |
| <input type="radio"/> true | <input type="radio"/> true |
| <input type="radio"/> false | <input type="radio"/> false |
| | <input type="radio"/> error |
| c) $(x <= z) \ \ (z <= y)$ | |
| <input type="radio"/> true | |
| <input type="radio"/> false | |