Lec 23

Operators.

4 Groups: Arithmetic, Bitwise, Relational, Logical

Arithmetic: + — * / % ++ --

(A) Unary:

① Unary minus: (—)

$x = 3$ & $y = 6$ then

x y

$\boxed{3}$ $\boxed{6 \; -3}$

$y = -x$;

o/p: $x = 3$, $y = -3$

② Casting operator: used to convert one datatype to another.

eg: int $x = 3$;

float $y = 5.6f$;

$x = (int) y$;

int   float

x y

$\boxed{\dfrac{x}{5}}$ $\boxed{5.6}$

③ Logical Not operator: !

if $x = 1$

then $y = !x$ means   y is having 0.

④ <u>Increment Operator: ++</u>

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Post Increment | Pre Increment

int x,y;   x   y

x=5; $\cancel{5}6$ | 5 |

y=x++;

int x,y;   x   y

x=5; $\cancel{5}6$ | 6 |

y= ++x;

⑤ Decrement: --

Post Decrement

int x,y;   x   y

x=5; $\cancel{5}4$ | 5 |

y=x--;

Pre Decrement

int x,y;   x   y

x=5; $\cancel{5}4$ | 4 |

y= --x;

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