



ลายเส้น



W06-02-01

 i j k

$$i = 1, j = 2, k$$

1 2

$$k = i + j$$

1 2 3

$$i = i + (k \times j)$$

7 2 3

$$j = i / 2$$

7 3 3

$$k = i \% 2$$

7 3 1

$$i = (j + k)^*$$

12 3 1





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W06-02-02

X

Y

Z

double x = 1.0, y = 2.0

1.0

3.0

 $x = y + 5.0$

4.0

3.0

 $y = x / 2.0$

4.0

3.5

 $y = (x * 3.0) + 4.0$

4.0

25.0

 $x = -0.5 - y$

-25.5

25.0

 $z = x + y$

-25.5

25.0

-0.5





- 146% +



W06-03 Relational & Logical operators.

$$x = 12, y = 7, z = 12$$

1) $x > y$ $12 > 7$ $\text{ସତ୍ୟ} \times$

2) $x < z$ $12 < 12$ $\text{ମିଥ୍ୟା} \times$

3) $x == z$ $12 == 12$ $\text{ସତ୍ୟ} \times$

4) $x != y$ $12 != 7$ $\text{ସତ୍ୟ} \times$

5) $!(2 * 5 > = y) \parallel (5 != (5 / 3))$ $2 * 5 > = 7$ ସତ୍ୟ , $!$ $\text{ସତ୍ୟ} \rightarrow \text{ମିଥ୍ୟା}$
 $5 != 1$ ସତ୍ୟ , $\text{false} \parallel \text{true} \rightarrow \text{true}$

6) $!(x < y)$ $12 < 7$ ମିଥ୍ୟା $!$ $\text{false} \rightarrow \text{true} \times$

7) $(x + y) > (2 * 2)$ $(12 + 7) > (12 * 2) \rightarrow 19 > 24 \rightarrow \text{false} \times$

8) $(x \% 2 == 0) \parallel (y \% 2 == 1)$ $12 \% 2 = 0 \rightarrow \text{true}$
 $7 \% 2 = 1 \rightarrow \text{true}$ $\text{true} \parallel \text{true} \rightarrow \text{true} \#$

9) $(x > y) \&\& (z < y)$ $12 > 7 \rightarrow \text{true}$ $12 < 7 \rightarrow \text{false}$
 $\text{true} \&\& \text{false} \rightarrow \text{false} \#$

W06-04 shot-hand Expression

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$$x = x - 4.0 ;$$

$$x = 6.5 * x ;$$

$$x = x / (y + z * a) ;$$

$$x = x / (2.0 * x) ;$$

$$\text{total} = \text{total} + (\text{price} * \text{quantity} - \text{discount}) ;$$

$$x = x * (1 + \text{rate} / 100) ;$$

$$\text{score} = \text{score} - (\text{penalty} * (\text{mistake} + 1)) ;$$

๖๖๗๗๘๘

$$X -= 4.0 ;$$

$$X * = 6.5 ;$$

$$X \% = (y + z * a) ;$$

$$X / = (2.0 * x) ;$$

$$\text{total} + = (\text{price} * \text{quantity} - \text{discount}) ;$$

$$X * = (1 + \text{rate} / 100) ;$$

$$\text{score} = -= (\text{penalty} * (\text{mistake} + 1)) ;$$



W06 - Q5

$$A = -2 + 5 * 2 = -2 + (5 \times 2) = -2 + 10 = 8 \quad \text{✗}$$

$$B = 10 / 2 * 3 = (10 \div 2) \times 3 = 5 \times 3 = 15 \quad \text{✗}$$

$$C = 6 / (2 + 3 * (4 / 2)) = 3 + 3 \times (0) = 3 \quad \text{✗}$$

$$D = (5 + 2) * 15 / 4 = 105 \div 4 = 1 \quad \text{✗}$$

$$E = 6 + 2 * 2 - 6 / 2 = 6 + 4 - 3 = 7 \quad \text{✗}$$

$$F = 5 + 3 * 2 - 8 / 4 + (6 / 5) = 5 + 6 - 2 + 1 = 10 \quad \text{✗}$$

$$G = (4 + 3) * 2 - 10 / (2 + 3) = 14 - 10 \div 5 = 12 \quad \text{✗}$$

W06-06

$a = 5$ $b = 2$ $x = 3.0$ $y = 4.5$

$\text{int } r1 = a++ * b + (\text{int})y / 3 \rightarrow 5 * 2 + (4 / 3) = 10 + 1 = 1$ a $\tilde{1} \rightarrow b$

$\text{int } r2 = (a > b) \&\& (\text{int})x / b < 2 \rightarrow (6 > 2) \&\& (3 / 2 < 2)$
 $\rightarrow \text{true} \&\& \text{true} \rightarrow \text{true} \times$

$\text{float } r3 = ++x * y - a / 2 \rightarrow 4.0 * 4.5 - 6 / 2 \rightarrow 18.0 - 3 \rightarrow 15.0 \times$

$\text{float } r4 = ((x += 1.5) > y) \|\ (b-- > 0) \rightarrow (5 + 1.5 > 4.5) \|\ 2 > 0$
 $\rightarrow \text{true} \|\ \text{true} \rightarrow \text{true} \times$